STATISTICS
1983

A statistical supplement to the Annual Report of the Minister of Natural Resources for the year ending March 31, 1983.

$2.00

Ontario
Ministry of Natural Resources
Hon. Alan W. Pope
Minister
John R. Sloan
Deputy Minister

Statistical Reports Prepared by Branches

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MINISTRY OF NATURAL RESOURCES*

Hon. Alan W. Pope	Minister of Natural Resources
John R. Sloan	Deputy Minister
G. A. McCormack	Assistant Deputy Minister, Northern Ontario ***
	Northwestern Region
	North Central Region
	Northern Region
	Northeastern Region
	Aviation and Fire Management Centre
R. J. Burgar	Assistant Deputy Minister, Southern Ontario*
	Algonquin Region
	Eastern Region
	Central Region
	Southwestern Region
M. Mogford	Assistant Deputy Minister, Administration
	MINISTERIAL AGENCIES
G. H. Ferguson, Q.C.	Mining and Lands Commissioner
I. D. Bird	General Manager, Algonquin Forest Authority

* Main Office in Whitney Block, Parliament Buildings, Toronto, Ontario M7A 1W3
** Box 5000, 435 James St. South, Thunder Bay 'F', Ontario P7C 5G6
*** Maple, Ontario L0J 1E0

OFFICE OF DEPUTY MINISTER

Room W-6320, Main Office Telephone (416) 965-2704

Deputy Minister	John R Sloan	W-6320	2704
Administrative Assistant	Miss A Klassen	W-6320	5873
Science Adviser and Research Co-ordinator	Dr M F Walmsley	W-6350	5720

POLICY CO-ORDINATION SECRETARIAT

Director	R M Monzon	W-6547	8422
Secretary	Mrs M Forbes	W-6540	8422
Outdoor Recreation Policy Officer	D W Simkin	W-6547	6712
Forest Resources Policy Officer	E E Muitamaki	W-6549	6712
Mineral Resources Policy Officer	Ms R E Booth-Horst	W-6549	6712
Lands and Waters Policy Officer	L A Douglas	W-6545	6371
Strategic Planning Officer	J D Ross	W-6550	6371
Special Projects Officer	J M Kearns	W-6550	6371
Land Use Planning Supervisor	M S Millar	W-3440	2899
Plan Input and Review Specialist	J C Slot	W-3440	2899
Environmental Planner	R D La Prairie	W-3440	2899
Planning Specialist	Vacant	W-3440	2899

MINISTRY REGIONS AND DISTRICTS

Areas in Square Kilometres*

NORTHWESTERN REGION			
Dryden	11 961		
Fort Frances	10 847		
Ignace	11 463		
Kenora	14 188		
Red Lake	64 105		
Sioux Lookout	112 097	224 661	
Pt. Rainy Lake	1 222		
Pt. Lake of the Woods	2 427	3 649	
Total Region		228 310	
NORTHERN REGION			
Chapleau	23 602		
Cochrane	30 715		
Gogama	7 752		
Hearst	25 245		
Kapuskasing	21 225		
Kirkland Lake	13 312		
Moosonee	215 741		
Timmins	7 899	345 491	
Pt. Lake Abitibi	790	790	
Total Region		346 281	
ALGONQUIN REGION			
Algonquin Park	9 376		
Bancroft	4 239		
Bracebridge	6 454		
Minden	4 745		
Parry Sound	7 187		
Pembroke	7 306	39 307	
Pt. Georgian Bay	3 875	3 875	
Total Region		43 182	
SOUTHWESTERN REGION			
Aylmer	6 731		
Chatham	7 389		
Owen Sound	7 817		
Simcoe	2 818		
Wingham	6 889	31 644	
Pt. Lake Huron and Lake Erie	30 950		
Pt. Lake St. Clair	673	31 624	
Total Region		62 268	

NORTH CENTRAL REGION			
Atikokan	11 321		
Geraldton	112 784		
Nipigon	25 574		
Terrace Bay	12 673		
Thunder Bay	28 451	190 803	
Lake Nipigon	5 006		
Pt. Lake Superior	16 017	21 023	
Total Region		211 826	
NORTHEASTERN REGION			
Blind River	9 516		
Espanola	9 523		
North Bay	10 668		
Sault Ste. Marie	7 912		
Sudbury	12 725		
Temagami	6 856		
Wawa	22 535	79 735	
Pt. Lake Huron and Lake Superior	25 298		
Lake Nipissing	816		
Lake Wahnapitae	145	26 259	
Total Region		105 994	
EASTERN REGION			
Brockville	3 496		
Carleton Place	6 277		
Cornwall	5 594		
Napanee	6 537		
Tweed	6 605	28 509	
Pt. Lake Ontario	4 333	4 333	
Total Region		32 842	
CENTRAL REGION			
Cambridge	7 141		
Huronia	6 550		
Lindsay	6 856		
Maple	4 812		
Niagara	2 670	28 029	
Pt. Lake Ontario and Lake Erie	8 109		
Lake Simcoe	741	8 850	
Total Region		36 879	
TOTALS			
47 Districts		968 179	
12 Lakes		100 403	
Area of Ontario		1 068 582	

* August 19,1980
Surveys and Mapping Branch

FOREST RESOURCES GROUP

Room W-3623, Main Office Telephone (416) 965-2785

Executive Co-ordinator	K A Armson	W-3624	965-4319
Secretary	Mrs I Hart	W-3624	5-4319
Chief Forester	Vacant	W-3621	5-3040
Chief Forest Economist	L S Lambert	W-3627	5-2785

FOREST RESOURCES BRANCH

Director	W K Fullerton	W-3646	5-2787
FOREST PRODUCTION & CONTROL SECTION			
Forest Production & Control Section Spvr	C J Heeney	W 3649	5-2575
Tree Seed & Forest Genetics Unit Spvr	R M Rauter	W-3634	3-1334
Forest Production Policy Unit Spvr	J Cary	W-3651	5-2575
Silviculture Information Assessment & Development Specialist	M Chaudhry	W-3652	5-2575
Forest Production Analyst	J Cooper	W-3650	5-2575
Analyst & Contract Specialist	A L Wells	W-3629	5-2785
Private Land Forestry Unit Spvr	R N Staley	W-3630	5-2785
Private Land Forestry Incentives Co-ordinator	G Sinclair	W-3632	5-2785
Stock Production Unit Spvr	K Reese	W-3655	5-2575
Soil & Plant Analyst	V Sadreika	W-3653	5-2575
Tree Distribution Co-ordinator	H Tiemann	W-3654	5-2575
Silviculture Data Controller	R K Crawford	W-3648	5-2575
Forest Practices Unit Spvr	G Brown	W-3643	5-0378
Mechanization			
Silviculture Equipment Development Co-ordinator	A Citro	Maple	832-2761
Design Assistant	N Mishrigi	Maple	2761
Equipment Developer	R Foote	Maple	2761
PEST CONTROL SECTION			
Pest Control Section Spvr	B McGauley	Maple	2761
Forest Entomologist	C S Kirby	Maple	2761
Herbicide Specialist	Dr R A Campbell	Maple	2761
Pesticide Applications Specialist	S A Nicholson	Maple	2761

ONTARIO TREE IMPROVEMENT AND FOREST BIOMASS INSTITUTE

Maple, Ontario L0J 1E0 Telephone (416) 832-2761

General Manager	D. P. Drysdale 832-2761
Executive Officer	D. Morgan 2761
Technology Transfer Specialist	D. Bates 2761
TREE IMPROVEMENT AND BIOMASS SECTION	
Principal Scientist	Dr. L. Zsuffa 2761
Research Scientist Tree Breeding - Spruce	J. V. Hood 2761
Research Scientist Tree Breeding - Hard Pine	Dr. G. Buchert 2761
Forest Biomass Unit Leader	H. Anderson 2761
Research Scientist Upland Silviculture	P. Jaciw 2761
Biotech Research Scientist	R. M. Ho 2761
Research Scientist	Dr. D.C.F. Fayle 2761
Research Scientist Tree Seed	D. A. Skeates 2761
Nursery/Greenhouse Arboreta Unit Leader	K. Bennett 2761
Research Scientist	D. Weingartner Thunder Bay (807) 767-1607
FOREST ECOLOGY AND SILVICULTURE SECTION	
Principal Scientist	Dr. D. Burger 2761
Site & Productivity Unit Leader	G. Pierpoint 2761
Research Scientist Mensuration	A. F. Beckwith 2761
Research Scientist Tree Nutrition	R. H. Leech 2761
Scientist Tree Nutrition	Y. T. Kim 2761
Biomathematician	Dr. F.L. Raymond 2761
Research Scientist Boreal Mixed Woods	G.B. MacDonald Thunder Bay (807) 767-1607
Research Scientist Plant Stock	S. Colombo 2761
Silviculture and Tree Biology Unit Leader	Dr. C. Glerum 2761
Silviculture Specialist	G. Stroempl 2761
Midhurst Research Unit Midhurst, Ontario L0L 1X0	B. Hutchison (705) 737-5510
Algonquin Region Research Unit Box 190 Dorset, Ontario P0A 1E0	M. McLean (705) 766-2671
Northern Forest Research Unit Box 2960 Thunder Bay, Ontario P7B 5G5	K. M. McLain (807) 767-1607
Forest Biology Laboratory Box 490 Sault Ste. Marie, Ontario P6A 5M7	Dr. A. Gordon (705) 949-9461

PLANTING STOCK DISTRIBUTION

Bare Root Nursery Stock	
conifers	60,512,110
hardwoods	3,148,317
Total	63,660,427
Container Stock	
ministry facilities	10,999,088
contract facilities	5,466,142
Total	16,465,230
GRAND TOTAL	80,125,657

FOREST TREE PRODUCTION BY MINISTRY NURSERIES

Number of trees in years ending March 31

Year	Bare Root	Container		Total
		Ministry	Contract	
1973	68,161,039	2,862,114	—	71,023,153
1974	65,362,395	3,402,228	—	68,764,623
1975	59,794,450	3,148,406	—	62,942,856
1976	50,944,733	5,346,866	—	56,291,599
1977	45,981,122	4,291,764	—	50,272,886
1978	48,291,842	5,461,375	—	53,753,217
1979	52,928,125	5,487,210	—	58,415,335
1980	61,453,461	7,944,817	—	69,398,278
1981	65,360,243	10,496,839	—	75,857,082
1982	69,448,150	13,950,538	—	83,398,688
1983	63,660,427	10,999,088	5,466,142	80,125,657

USE OF NURSERY STOCK IN YEAR ENDING MARCH 31, 1983

Use	Bare Root	Container		Total
		Ministry	Contract	
Crown land & Agreement Forest	41,644,288	10,999,088	5,466,142	58,109,518
WIA	9,182,277	—	—	9,182,277
Other Private Land	12,032,896	—	—	12,032,896
Education or Science	800,966	—	—	800,966
Miscellaneous	—	—	—	—
TOTAL	63,660,427	10,999,088	5,466,142	80,125,657

TREE PRODUCTION BY SPECIES

Number of trees in years ending March 31

Species	1979	1980	1981	1982	1983
White Spruce	13,704,591	16,687,027	14,384,928	16,394,578	16,396,972
Black Spruce	13,170,734	11,800,627	17,365,106	17,155,688	18,847,802
Red Pine	8,627,330	8,215,238	8,534,677	7,493,071	6,707,858
Jack Pine	12,831,439	18,832,062	19,143,238	25,830,821	21,744,405
White Pine	3,694,571	5,181,787	6,431,427	6,451,959	7,595,781
White Cedar	493,254	1,461,566	2,381,005	2,806,775	2,984,424
Scotch Pine	893,316	1,483,794	1,500,375	1,545,425	906,075
Silver Maple	584,853	423,958	563,229	240,785	502,402
Norway Spruce	902,881	1,158,639	1,367,267	1,093,919	1,021,589
Carolina Poplar	487,769	532,077	583,863	532,351	404,549
Black Walnut	341,587	301,305	459,275	364,000	333,125
White Ash	505,194	222,264	256,239	283,281	57,218
European Larch	154,055	175,874	489,290	275,202	164,918
Yellow Birch	205,827	41,440	80,144	116,400	20,000
Red Oak	398,192	499,244	258,284	316,191	178,717
Black Locust	212,583	190,235	203,250	164,475	217,950
Tamarack	28,238	255,211	143,777	309,506	434,983
Hemlock	130,456	529	68,746	272	14,725
Cottonwood	13,325	—	53,725	—	—
Hybrid Poplar					
Rooted	61,350	110,839	112,422	108,484	53,042
Unrooted	515,608	943,821	818,530	1,061,811	1,079,038
Japanese Larch	7,000	253,366	156,965	293,631	129,350
Aspen, unrooted	—	91,948	—	—	7,880
Other Species	451,182	535,427	501,320	560,063	322,854
Total	58,415,335	69,398,278	75,857,082	83,398,688	80,125,657

TREES SUPPLIED FOR PLANTING ON PRIVATE LANDS

in years ending March 31

County, District or Regional Municipality	1979	1980	1981	1982	1983
Algoma	234,705	281,900	305,955	190,825	251,205
Brant	142,750	207,300	222,850	129,055	122,125
Bruce	119,385	282,953	194,197	278,020	138,851
Cochrane	482,720	560,600	705,480	1,072,250	536,825
Dufferin	325,915	486,250	507,385	470,585	307,250
Dundas	49,475	129,705	125,453	68,475	73,972
Durham**	378,775	480,901	479,450	538,150	487,200
Elgin	170,320	207,066	208,435	209,899	189,162
Essex	128,450	189,420	208,541	188,513	199,307
Frontenac	85,480	115,695	136,700	193,486	112,800
Glengarry	71,025	76,675	190,742	166,500	136,350
Grey	453,124	427,215	524,400	503,740	487,980
Haldimand	241,075	298,566	524,307	74,190	89,475
Haliburton	45,125	73,200	48,100	33,800	26,800
Halton	105,225	250,970	274,165	137,575	105,385
Hastings	126,125	172,443	169,042	317,973	178,422
Huron	234,575	185,406	273,100	198,264	147,279
Kenora	374,400	102,300	273,900	189,175	519,125
Kent	135,500	137,535	303,225	233,185	320,655
Lambton	87,990	178,900	192,941	239,577	174,693
Lanark	67,137	199,312	260,175	203,900	155,000
Leeds & Grenville	139,589	369,040	297,361	333,375	249,795
Lennox & Addington	58,775	126,175	107,775	128,350	154,095
Manitoulin	10,550	55,500	27,400	15,100	16,350
Middlesex	231,282	340,788	616,575	433,402	440,800
Muskoka	86,800	66,250	73,250	68,150	57,845
Niagara	235,858	299,162	366,493	365,481	211,336
Nipissing	130,500	98,125	41,925	60,770	75,455
Norfolk	2,610	32,600	1,100	411,302	431,250
Northumberland**	220,839	330,345	326,280	530,657	423,148
Ontario**	2,062	3,008	—	2,610	1,700
Ottawa-Carleton	101,225	396,699	300,615	252,310	160,530
Oxford	165,728	232,888	275,075	197,278	175,996
Parry Sound	147,275	273,600	338,250	188,650	50,625
Peel	233,487	295,543	289,669	265,910	188,300
Perth	83,198	200,053	177,450	135,535	169,190
Peterborough	228,231	195,967	202,400	133,920	148,111
Prescott	46,350	225,425	123,875	142,825	250,400
Prince Edward	75,070	79,000	86,825	71,650	72,100
Rainy River	51,625	83,675	97,325	101,750	13,650
Renfrew	339,094	262,425	420,025	229,550	282,925
Russell	61,600	182,200	207,150	174,655	128,150
Simcoe	837,865	1,044,115	1,268,225	1,143,650	1,006,995

**Totals do not reflect formation of the Regional Municipality of Durham

County, District or Regional Municipality	1979	1980	1981	1982	1983
Stormont	36,225	84,518	138,703	50,100	60,500
Sudbury	254,612	372,482	465,222	415,335	590,029
Thunder Bay	141,875	133,675	418,325	113,325	62,975
Timiskaming	18,500	38,550	40,300	12,250	23,400
Victoria	154,615	250,207	283,922	278,930	204,725
Waterloo	118,450	267,950	170,052	111,100	86,575
Wellington	528,850	673,675	759,815	709,700	798,607
Wentworth	250,630	365,465	365,135	324,423	299,198
York	525,135	603,273	568,025	410,582	438,280
Durham Regional Municipality	300	—	1,550	150	—
Total	9,405,081*	13,026,690*	14,984,610*	13,449,912*	12,032,896*

*Excluding W.I.A.

FOREST AREAS MANAGED BY THE MINISTER

in hectares at March 31, 1983

Agreement Holders	Term of Agreement	Added 1982-83	Released 1982-83	Total
GOVERNMENT OF CANADA				
National Capital Commission	Apr. 1961 - Mar. 2011			* 1,704.17
22 CONSERVATION AUTHORITIES				
Ausable Bayfield	Apr. 1964 - Mar. 2004			1,773.78
Cataraqui Region	Apr. 1971 - Mar. 1996			342.32
Catfish Creek	Apr. 1962 - Mar. 2002			254.55
Crowe Valley	Jan. 1963 - Dec. 2003			80.94
Ganaraska	Apr. 1960 - Mar. 2000			3,496.25
Grand River	Apr. 1961 - Mar. 2000			1,657.75
Lakehead Region	May 1958 - Apr. 2008			670.86
Long Point Regional	Apr. 1960 - Mar. 2000	31.04		2,591.37
Lower Thames Valley	Apr. 1964 - Mar. 1984			121.41
Maitland Valley	Apr. 1955 - Mar. 2005			343.59
Metropolitan Toronto & Region	Apr. 1975 - Mar. 2000			* 785.91
Moira River	Apr. 1978 - Mar. 2000			6,807.28
Napanee Region	Oct. 1954 - Oct. 2004			2,732.50
Niagara Peninsula	June 1963 - Mar. 2003			75.27
North Grey Region	June 1958 - June 2008			2,882.73
Otonabee Region	Apr. 1976 - Mar. 2002			1,465.07
Raison Region	Apr. 1971 - Mar. 2001			137.60
Sauble Valley	Apr. 1960 - Mar. 2002			1,547.55
Saugeen Valley	Apr. 1960 - Mar. 2002	28.33		* 5,257.58
South Nation River	Apr. 1975 - Mar. 2000			3,072.90
St. Clair Region	May 1965 - Apr. 1985			60.70
Upper Thames River	Apr. 1961 - Mar. 2001			1,363.32
Sub Total		59.37		37,521.24

*Reconciliation adjustment

Agreement Holders	Term of Agreement	Added 1982-83	Released 1982-83	Total
9 TOWNSHIPS				
Bonfield	Apr. 1952 - Mar. 1982			24.28
Charlottenburgh	Apr. 1975 - Mar. 1995			77.70
Cramahe	Apr. 1963 - Mar. 2003			65.56
Cumberland	July 1980 - June 2030			371.69
Darlington	Apr. 1971 - Mar. 1991			56.66
Machar	Sept. 1963 - Aug. 1993			36.42
Mosa	Apr. 1963 - Mar. 2003			58.28
Torbolton	Mar. 1953 - Mar. 1983			174.34
Williamsburg	Apr. 1962 - Mar. 2002			161.88
Sub Total				1,026.81
19 COUNTIES				
Brant	Apr. 1960 - Mar. 2000			40.19
Bruce	Apr. 1962 - Mar. 2002			* 6,106.18
Dufferin	Apr. 1971 - Mar. 1991			1,019.24
Grey	Apr. 1960 - Mar. 2000			3,482.50
Huron	Apr. 1960 - Mar. 2000			662.32
Kent	Apr. 1960 - Mar. 2000			30.51
Lanark	Apr. 1980 - Mar. 2000	99.15		3,709.43
Leeds & Grenville	Apr. 1975 - Mar. 1995	150.95		5,802.30
Lennox & Addington	Apr. 1960 - Mar. 2000			473.05
Middlesex	Apr. 1960 - Mar. 2000	8.09		980.98
Northumberland	**Apr. 1981 - Mar. 2001			2,568.43
Oxford	Apr. 1961 - Mar. 2000			342.07
Peterborough	**Apr. 1981 - Mar. 2001			80.94
Prescott & Russell	May 1960 - Apr. 2000			*10,540.75
Renfrew	Apr. 1960 - Mar. 2000		1.74	6,498.46
Simcoe	Apr. 1960 - Mar. 2000	40.47	0.96	10,600.37
Stormont, Dundas & Glengarry	Apr. 1975 - Mar. 2000	33.39		3,053.62
Victoria	Nov. 1976 - Mar. 2000			3,794.79
Wellington	Apr. 1963 - Mar. 1983			521.41
Sub-Total		332.05	2.70	60,307.56
6 REGIONAL MUNICIPALITIES				
Durham	May 1960 - Apr. 1980			591.06
Halton	Apr. 1976 - Mar. 2000			632.31
Hamilton-Wentworth	Apr. 1961 - Mar. 1981			391.19
Ottawa-Carleton	Apr. 1974 - Mar. 2004	326.59		5,484.23
Waterloo	Apr. 1976 - Mar. 2001			* 259.49
York	Apr. 1977 - Mar. 2007			2,030.52
Sub-Total		326.59		9,388.80
INDUSTRY				
Domtar	Apr. 1974 - Mar. 1999			900.04
TOTAL 58 Managed Forest Areas		718.01	2.70	110,848.62

* Reconciliation adjustment
** Replacement agreement

SILVICULTURAL OPERATIONS

Classification of cutover forest land in year ending March 31, 1983

Areas in hectares

	Crown Lands	Forest Management Agreements	Total Crown Lands	Agreement Forests	W.I.A.	Other Patent Lands	Total
Harvest Cut, evenaged management	126,219	42,411	168,630	2,181	151	29,375	200,337
Harvest Cut unevenaged management	9,561	—	9,561	219	599	12,475	22,584
TOTAL	135,780	42,411	178,191	2,400	750	41,850	223,191

SUMMARY OF SILVICULTURAL OPERATIONS

Areas in Hectares in year ending March 31, 1983

	Crown Lands	Forest Management Agreements	Total Crown Lands	Agreement Forests	W.I.A.	Sub-Total	Other Patent Lands	Total
REGENERATION								
Planting Bare Root Stock	16,311	4,961	21,272	330	5,349	26,951	3,327	30,278
Planting Container Stock	3,982	3,323	7,305	97	119	7,521	43	7,564
Planting Hybrid Poplar Cuttings	19	—	19	116	55	190	8	198
Seeding	22,251	7,606	29,857	—	—	29,857	134	29,991
Scarification	817	—	817	—	4	821	—	821
Strip Cutting	1,171	274	1,445	1	—	1,446	—	1,446
Seed Tree Cutting	2,307	908	3,215	6	—	3,221	339	3,560
Shelterwood Cutting	9,431	—	9,431	6	—	9,437	48	9,485
Clear Cutting	5,991	1,561	7,552	42	4	7,598	1,826	9,424
Total	62,280	18,633	80,913	598	5,531	87,042	5,725	92,767
RE-TREATMENT	2,256	97	2,353	257	1,623	4,233	59	4,292
TENDING								
Hand Cleaning	5,752	92	5,844	216	654	6,714	24	6,738
Herbicide Spraying	10,633	15,532	26,165	674	2,791	29,630	2,205	31,835
Thinning Improvement Cuts	6,563	135	6,698	1,701	2,757	11,156	2,480	13,636
Pruning	756	—	756	852	411	2,019	1	2,020
Fertilization Drainage	87	—	87	161	29	277	—	277
Total	23,791	15,759	39,550	3,604	6,642	49,796	4,710	54,506
SITE PREPARATION	47,393	20,190	67,583	601	2,077	70,261	737	70,998
MARKING	37,229	—	37,229	3,217	4,134	44,580	9,373	53,953
TOTAL AREA TREATED	170,693	54,582	225,275	8,020	18,384	251,679	20,545	272,224

CROWN LANDS TREATED

Areas in hectares in years ending March 31

Silvicultural Operations	1979	1980	1981	1982	1983
REGENERATION					
Planting Bare Root Stock	18,529	19,830	18,786	22,561	21,272
Planting Container Stock	2,280	3,860	4,829	6,357	7,305
Planting Hybrid Poplar Cuttings	-	-	24	31	19
Seeding	23,548	24,251	47,296	27,869	29,857
Scarification	4,013	2,392	3,241	1,653	817
Strip Cutting	2,580	2,058	1,562	2,879	1,445
Seed Tree Cutting	6,325	7,339	3,934	3,100	3,215
Shelterwood Cutting	10,669	9,867	9,794	7,738	9,431
Clear Cutting	2,771	2,266	6,202	4,909	7,552
Total	70,715	71,863	95,668	77,097	80,913
RE-TREATMENT	3,435	2,072	7,981	2,263	2,353
TENDING					
Hand Cleaning	4,855	5,326	4,481	3,686	5,844
Herbicide Spraying	16,955	13,156	25,404	19,668	26,165
Thinning Improvement Cuts	12,853	8,511	8,209	6,679	6,698
Pruning	661	695	853	618	756
Fertilization Drainage	188	172	166	163	87
Total	35,512	27,860	39,113	30,814	39,550
SITE PREPARATION	42,834	49,061	51,057	53,289	67,583
MARKING	50,243	50,607	43,390	38,954	37,229
TOTAL AREA TREATED	202,739	201,463	237,209	202,417	225,275

1982 SEED CROP BY SPECIES

	Volume Collected (hl)
Jack pine	22,065
Black spruce	7,393
White spruce	6,490
White pine	2,996
Scots pine	391
White cedar	355
Norway spruce	266
Red pine	200
Black walnut	1,635
Other species	498
Total	42,289

1982 SEED REGENERATION PROGRAMS

Direct seeding	1,113,047,000
Nursery stock production	692,892,000
Container stock production	122,556,000
Research and miscellaneous	7,071,000
Total viable seed	1,935,566,000

SEED IN STORAGE AS OF MARCH 31, 1983 (ONTARIO TREE SEED PLANT)

No. of viable seed (billion)	8,392
No. of different species	74
Total weight (kg)	31,326
Total value (million)	$4.6

TREE SEED AREAS

Areas in hectares

	Black Spruce	White Spruce	White Pine	Jack Pine	Other	Total
Seed collection areas	557.7	202.8	112.0	4,814.3	465.7	6,152.5
Seed production areas	171.0	212.8	478.4	1,195.4	471.6	2,529.2
Seed orchards a) total area	177.7	108.7	51.1	92.0	6.6	437.0
b) area planted	92.1	16.4	14.4	1.0	6.6	130.5

1982-83 FORESTRY EXTENSION ACTIVITIES

Inquiries serviced	105,783
Field inspections	9,496
Advisory service plans prepared	1,288
Volume of timber marked - sawlogs (cubic metres)	85,943
- pulpwood (cubic metres)	30,752
- fuel (cubic metres)	196,686
Public education activities	4,885
Forestry instruction (hrs.) - youth groups	461
- education facilities	3,383

THE WOODLANDS IMPROVEMENT ACT

	No. of Agreements	Areas in Hectares
New Agreements Activated in 1982-83	788	9,359
Agreements in effect to March 31, 1983	9,824	159,459
New Advisory Service Agreements Activated in 1982-83	78	970
Advisory Service Agreements in effect to March 31, 1983	96	1,137

Total trees planted: 9,182,277

STATUS OF FOREST MANAGEMENT PLANS, MARCH 31, 1983

Areas in Square Kilometres	Forest Management Units							
	Crown		Company		FMA		Agreement Forests	
	No.	Area	No.	Area	No.	Area	No.	Area
Approved Management Plans	26	88,060	5	50,485	4	31,019	33	500
Forest Management Plans submitted for review and approval	23	82,737	8	88,635	2	12,707	3	73
Forest Management Plans being prepared	18	67,870	—	—	7	26,492	22	536
Units for which no Management Plans are required (Inactive)	10	90,676	—	—	—	—	—	—
Unalienated Crown Lands	—	4,438	—	—	—	—	—	—
Total	77	333,781	13	139,120	13	70,218	58	1,109

TIMBER SALES BRANCH

Room W-3610, Main Office Telephone (416) 965-2731 or 963-2396

Director	E. Markus	W-3612	965-3948
Special Projects & Energy Biomass Co-ordinator	R. P. Alton	W-3610	3-2396

WOOD ALLOCATION SECTION

Wood Allocation Section Spvr.	J. R. Keddie	W-3611	3-2396
Timber Licensing Spvr.	K. E. Cleary	W-3610	3-2396
Licensing Unit Spvr.	F. C. Parris	W-3601	5-2731
Resource Economist	I. A. Nausedas	W-3601	5-2731
Industrial Liaison Officer	W. D. Wardle	W-3625	5-2785
Agreement Administrator	J. Brown	W-3601	5-2731

MANAGEMENT PLANS SECTION

Management Plans Section Spvr.	A. M. van Fraassen	W-3522	5-7631
Chief Mensurationist	J. A. Mervart	W-3526	5-7631
Planning Analyst	G. Protich	W-3525	5-7631
Planning Analyst	H. van Bers	W-3523	5-7631
FMA Co-ordinator	T. J. Tworzyanski	W-3524	5-7631

WOOD MEASUREMENT SECTION

Wood Measurement Section Spvr.	J. H. Butts	W-3642	5-0378
Provincial Wood Measurement Training Officer	J. Bingley	W-3641	5-0378
Senior Data Processing Officer	R. G. Johnson	W-3641	5-0378
Data Control Officer	I. Mahler	W-3641	5-0378

FOREST MANAGEMENT INFORMATION SECTION

Forest Management Information Section Supervisor	J. E. Osborn	W-3542	5-6914
Forest Resources Inventory Unit Spvr.	B. Cardwell	W-3544	5-6914
Darkroom Spvr.	J. Howard	W-3520	5-6914
Operations Manager	D. Trafford	W-3543	5-6914
Photo Interpretation Spvr.	A. Manley	W-3546	5-6914
Formagain Unit Spvr.	W. E. Jenns	M1B-43	3-0822

MANAGEMENT UNITS

Areas in square kilometres at March 31

	CROWN LAND FORESTS								AGREEMENT FORESTS	
	Crown		Company		FMA		Total			
Year	No	Area	No	Area	No	Area	No	Area	No	Area
1979	88	333,821 0	17	199 348 8			105	533,169 7	59	1,077 4
1980	88	334,418 0	17	198,751 0			105	533,169 0	60	1,090 0
1981	78	333,402 0	14	165,016 0	5	45,584 0	97	544,002 0	60	1,096 6
1982	82	333,571 0	15	156,006 0	8	52,406 0	105	541,983 0	58	1,013 0
1983	77	333,781 0	13	139,120 0	13	70,218 0	103	543,119 0	58	1,109 0

TIMBER LICENCES

Areas in square kilometres at March 31

	Under Section 2		Under Section 3		Under Section 5		Under Section 6		Total Licences	
Year	No	Area	No	Area	No	Area	No	Area	No	Area
1979	44	39 1	415	239,531 2	19	96 3	—	—	478	239,666 6
1980	78	75 6	412	242,711 9	20	86 5	—	—	510	242,874 1
1981	56	69 4	423	198,334 8	64	329 7	5	45,583 8	548	244,317 7
1982	34	48 0	412	181,297 1	58	643 0	8	61,788 8	512	243,776 9
1983	26	32 3	415	178,967 1	52	545 6	13	79,627 8	506	259,172 8

MILL LICENCES

Type of Mill	1978	1979	1980	1981	1982
Saw Mills, 8-hour capacity					
Lumber ..... over 50M fbm	61	54	60	60	59
Lumber ..... 10M to 50M fbm	96	96	96	85	87
Lumber ..... under 10M fbm	602	594	648	608	593
Misc. Sawn Products	30	41	38	50	68
Saw Mills, Total	789	785	842	803	807
Veneer Mills	24	28	31	25	26
Pulp Mills	23	23	21	21	21
Total	836	836	894	849	854

TIMBER HARVESTED ON CROWN LANDS BY SPECIES

in cubic metres and $000s in years ending March 31

Species	1979	1980	1981	1982	1983
SOFTWOOD					
Balsam	602,451	662,803	926,677	718,975	586,883
Cedar	16,863	22,886	13,972	13,659	17,195
Hemlock	79,471	64,167	59,109	63,504	47,361
Jack Pine	5,507,057	6,207,462	5,927,897	5,362,713	4,135,200
Red Pine	157,209	192,051	187,494	183,663	168,759
White Pine	533,606	607,311	495,271	529,159	563,024
Spruce	8,193,427	8,901,496	8,692,652	7,724,772	6,707,133
Tamarack	2,321	4,622	5,658	2,330	1,168
Mixed	36,527	9,970	10,017	18,503	30,599
HARDWOOD					
Ash	1,864	2,494	1,519	2,021	1,558
Basswood	12,009	13,897	9,069	11,042	7,769
Beech	26,846	23,453	15,737	19,581	18,377
White Birch	86,832	96,526	62,557	77,523	93,562
Yellow Birch	121,078	121,990	90,478	105,982	78,058
Butternut	28	14	16	16	36
Cherry	1,235	1,243	634	1,373	1,584
Elm	297	306	111	39	165
Ironwood	1	1	—	1	1
Maple	292,783	270,417	178,833	219,345	164,317
Oak	12,194	14,362	10,845	11,389	10,415
Poplar	1,439,082	1,509,922	1,414,955	1,800,431	1,505,038
Mixed	642,203	677,854	633,769	647,366	648,316
TOTALS					
Softwoods	15,128,932	16,672,766	16,318,746	14,617,179	12,257,322
Hardwoods	2,636,451	2,732,479	2,418,525	2,896,121	2,529,198
Total	17,765,383	19,405,245	18,737,271	17,513,300	14,786,521
Value	$35,986	$46,184	$43,727	$42,453	$35,037

VOLUME AND VALUE OF TIMBER CUT FROM CROWN LANDS

in year ending March 31, 1983

Tree Species	Volume in Cubic Metres	Bonus $	Crown Dues $	Stumpage Value $
SOFTWOODS				
White Pine	563,023.830	643,455.11	1,163,467.31	1,806,922.42
Red Pine	168,759.320	178,811.42	338,804.44	513,615.86
Jack Pine	4,135,200.333	479,332.45	10,191,783.73	10,671,115.18
White Spruce	105,685.808	5,385.29	276,781.42	282,166.71
Black Spruce	759,206.946	30,950.18	2,085,628.99	2,116,579.17
Spruce, Mixed	5,842,240.006	792,318.45	14,226,846.81	15,019,165.26
Hemlock	47,360.684	23,385.64	98,345.96	121,731.60
Balsam	586,883.460	73,414.51	1,284,082.90	1,357,497.41
Cedar	17,194.538	5,852.46	37,354.96	43,207.42
Tamarack	1,168.028	113.50	2,475.42	2,588.92
Mixed Conifers	30,599.418	6,741.39	23,775.43	30,516.82
Total Softwoods	12,257,322.371	2,235,760.40	29,729,346.37	31,965,106.77
HARDWOODS				
Maple	164,316.677	182,895.14	387,317.36	570,212.50
Yellow Birch	78,057.914	150,475.42	221,908.96	372,384.38
White Birch	93,562.434	84,173.84	49,149.40	133,323.24
Oak	10,415.314	24,378.88	22,829.01	47,207.89
Beech	18,377.013	16,408.83	37,606.34	54,015.17
Ash	1,557.977	4,347.06	2,704.01	7,051.07
Elm	165.488	301.05	464.06	765.11
Basswood	7,769.170	22,720.18	14,584.26	37,304.44
Hickory	5.870	76.41	12.12	88.53
Butternut	35.967	42.74	106.51	149.25
Ironwood	1.205	—	0.43	0.43
Cherry	1,584.171	1,041.54	3,853.34	4,894.88
Poplar	1,505,038.322	189,322.20	838,536.49	1,027,858.69
Mixed Hardwoods	648,310.607	477,274.19	339,320.60	816,594.79
Total Hardwoods	2,529,198.149	1,153,457.48	1,918,392.89	3,071,850.37
GRAND TOTAL	14,786,520.520	3,389,217.88	31,647,739.26	35,036,957.14

TIMBER HARVESTED ON CROWN LAND BY METHOD OF MEASUREMENT

in cubic metres and $000s in years ending March 31

Year	Stacked		Cubic		Foot Board Measure					Stumpage Value
	Softwood	Hardwood	Softwood	Hardwood	Grade 1	Grade 2	Grade 3	Mass	Total	
1979	4,291,932	755,807	6,346,902	579,123	135,462	218,731	114,054	5,323,371	17,765,383	$35 986
1980	4,698,427	770,447	6,559,707	715,644	131,394	207,162	109,406	6,213,058	19,405,245	$46,184
1981	4,380,421	723,064	6,339,098	513,585	90,064	144,986	70,785	6,475,267	18,737,271	$43,727
1982	3,889,894	558,760	5,070,186	611,389	107,244	181,592	81,943	6,719,923	17,513,300	$42,453
1983	2,974,245	650,425	4,313,754	525,436	79,545	131,481	71,228	6,040,406	14,786,521	$35,037

TIMBER HARVESTED ON CROWN LANDS BY REGIONS

Administrative Regions of Ministry of Natural Resources
in cubic metres in years ending March 31

Regions	1980	1981	1982	1983
Northwestern				
Softwoods	3,920,143	3,925,760	3,688,116	2,888,440
Hardwoods	42,118	55,195	71,194	76,868
North Central				
Softwoods	5,639,882	5,138,761	4,464,605	4,007,835
Hardwoods	914,377	859,906	923,375	847,995
Northern				
Softwoods	5,580,101	5,576,718	4,795,869	3,945,635
Hardwoods	451,595	432,151	538,589	533,394
Northeastern				
Softwoods	1,112,628	1,181,886	1,315,205	1,093,690
Hardwoods	652,473	552,629	766,063	523,773
Algonquin				
Softwoods	378,349	477,330	324,081	294,264
Hardwoods	579,706	436,581	492,500	442,689
Eastern				
Softwoods	41,469	18,291	29,304	22,852
Hardwoods	91,509	82,063	104,400	104,479
Central				
Softwoods	194	—	—	4,607
Hardwoods	701	—	—	—
Southwestern				
Softwoods	—	—	—	—
Hardwoods	—	—	—	—
Total, Ontario				
Softwoods	16,672,766	16,318,746	14,617,179	12,257,322
Hardwoods	2,732,479	2,418,525	2,896,121	2,529,198
Total	19,405,245	18,737,271	17,513,300	14,786,521

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT AND TREE SPECIES

in year ending March 31, 1983

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues $	Stumpage Value $
STACKED, ROUGH				
White Pine	11,574.090	12,036.537	24,015.31	24,502.14
Red Pine	12,061.856	12,121.856	17,562.39	17,655.49
Jack Pine	1,013,851.005	1,021,002.632	2,540,428.08	2,613,493.22
Pine, Mixed	4,607.200	4,607.200	10,458.34	10,458.34
White Spruce	5.383	5.383	14.89	15.18
Black Spruce	36.872	36.872	101.98	103.97
Spruce, Mixed	1,359,371.719	1,370,000.123	3,410,809.77	3,531,559.77
Hemlock	177.782	177.782	354.05	361.08
Balsam	75,125.829	75,235.721	180,958.37	194,293.47
Cedar	4,302.268	4,302.268	9,351.75	9,568.36
Tamarack	686.202	686.303	1,546.68	1,570.05
White Birch	38,608.342	38,608.342	20,814.24	57,101.84
Ash	19.267	19.267	9.83	9.83
Poplar	332,634.279	335,572.160	181,933.98	222,275.50
Hardwoods, Mixed	1,330.994	1,777.082	687.43	1,118.45
TOTAL	2,854,392.088	2,876,189.528	6,399,107.09	6,684,096.69
STACKED, PEELED				
Jack Pine	49,216.642	49,216.642	135,496.84	138,650.36
Spruce, Mixed	307,975.489	307,975.489	843,998.62	863,583.14
Balsam	92,771.244	92,771.244	199,162.37	203,492.51
Cedar	0.603	0.603	0.75	2.41
Poplar	16,690.213	16,690.213	9,665.97	10,453.93
TOTAL	466,654.191	466,654.191	1,188,324.55	1,216,182.35

Unit of Measurement / Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues $	Stumpage Value
CUBIC METRES				
White Pine	416,480.490	415,584.311	851,485.79	1,412,883.33
Red Pine	108,864.063	108,860.063	220,565.48	366,011.76
Jack Pine	761,235.966	761,235.966	1,869,148.07	1,979,267.99
White Spruce	105,680.425	105,860.425	276,766.53	282,151.53
Black Spruce	759,170.074	759,170.074	2,085,527.01	2,116,475.20
Spruce, Mixed	1,901,383.785	1,901,383.785	4,534,491.16	4,878,846.68
Hemlock	34,973.780	34,973.780	71,320.48	88,511.99
Balsam	211,568.107	211,568.107	426,071.37	452,614.06
Cedar	12,891.667	12,891.667	28,002.46	33,636.65
Tamarack	481.725	481.725	928.74	1,018.87
White Birch	51,937.363	53,571.463	27,586.78	75,447.58
Ash	12.814	12.814	6.54	8.33
Poplar	411,972.667	411,712.707	230,085.47	317,644.71
TOTAL	4,776,652.926	4,777,126.887	10,621,985.88	12,004,518.68
BOARD FOOT MEASURE, GRADE 1				
Maple	8,841.540	43,141.151	197,614.38	272,881.88
Yellow Birch	5,796.910	27,050.851	129,100.32	195,860.96
Oak	606.760	3,184.429	13,718.90	23,579.87
Beech	743.410	3,677.500	16,531.03	23,977.84
Ash	57.330	293.049	1,278.11	3,289.55
Elm	11.000	52.155	243.28	361.93
Basswood	343.190	1,769.687	7,691.52	14,575.94
Hickory	0.420	2.430	9.68	38.31
Butternut	3.600	17.525	81.07	102.22
Cherry	73.660	356.160	1,646.52	1,999.05
TOTAL	16,477.820	79,544.937	367,914.81	536,667.55
BOARD FOOT MEASURE, GRADE 2				
Maple	15,467.180	77,611.715	171,988.02	256,834.32
Yellow Birch	7,826.850	37,724.870	87,172.90	169,029.53
Oak	670.660	3,492.268	7,589.54	16,180.51
Beech	1,670.470	8,419.749	18,536.35	25,912.09

Ash	91.820	550.282	1,152.89	2,857.58
Elm	19.230	92.570	212.05	346.66
Basswood	496.720	2,639.250	5,564.97	14,316.78
Hickory	0.120	0.675	1.34	10.64
Butternut	1.940	9.876	21.88	33.75
Cherry	187.860	940.207	2,091.37	2,741.01
TOTAL	26,432.850	131,481.462	294,331.31	488,262.87
BOARD FOOT MEASURE, GRADE 3				
Maple	7,937.190	43,563.811	17,714.96	40,496.30
Yellow Birch	2,524.330	13,282.193	5,635.74	7,493.89
Oak	667.140	3,738.617	1,520.57	7,447.51
Beech	1,144.380	6,279.764	2,538.96	4,125.24
Ash	117.280	682.585	256.64	885.78
Elm	3.930	20.763	8.73	56.52
Basswood	590.330	3,360.233	1,327.77	8,411.72
Hickory	0.480	2.765	1.10	39.58
Butternut	1.570	8.566	3.56	13.28
Ironwood	0.190	0.205	0.43	0.43
Cherry	51.980	287.804	115.45	154.82
TOTAL	13,038.800	71,228.306	29,123.91	69,125.07
MASS-SCALED WOOD				
White Pine	111,507.096	135,402.982	287,966.21	369,536.95
Red Pine	40,441.916	47,777.401	100,676.57	129,938.61
Jack Pine	1,862,457.072	2,303,745.093	5,646,709.74	5,939,703.61
Spruce, Mixed	1,740,087.274	2,262,880.609	5,437,547.26	5,745,175.67
Hemlock	11,330.067	12,209.122	26,671.43	32,858.53
Balsam	190,546.638	207,308.388	477,890.79	507,097.37
Poplar	734,427.759	741,016.365	416,765.47	477,454.73
Hardwoods, Mixed	355,766.457	319,334.933	168,516.65	246,961.78
TOTAL	5,046,564.279	6,029,674.893	12,562,744.12	13,448,727.25

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues $	Stumpage Value $
FUELWOOD, STACKED, CUBIC METRES				
Conifers, Mixed	24,068.451	24,068.231	12,275.45	16,398.91
White Birch	156.000	156.000	79.50	84.00
Hardwoods, Mixed	255,331.917	257,602.123	132,890.28	505,756.70
TOTAL	279,556.368	281,826.354	145,245.23	522,239.61
FUELWOOD, CUBIC METRES				
Conifers, Mixed	1,923.987	1,923.987	1,041.64	3,659.57
White Birch	1,226.629	1,226.629	668.88	689.82
Poplar	46.877	46.877	25.60	29.82
Hardwoods, Mixed	58,865.019	58,869.019	31,363.00	55,013.13
TOTAL	62,062.512	62,062.512	33,099.12	59,392.34
FUELWOOD, MASS SCALED				
Hardwoods, Mixed	12,019.285	10,731.450	5,863.24	7,744.73
TOTAL	12,109.285	10,731.450	5,863.24	7,744.73
TOTAL TIMBER CUT IN PROVINCE		14,786,520.520	31,647,739.26	35,036,957.14

Number of District Cutting Licences issued and included in the above: 3,448

PRINCIPAL STATISTICS OF ONTARIO'S FOREST INDUSTRY BY SECTOR

Source: Statistics Canada

Sector / Year	Establishments No.	Total Employees No.	Total Salaries and Wages $000s	Fuel and Electricity $000s	Materials and Supplies $000s	Value of Shipments $000s	Total Value Added $000s
1977							
Logging	246	8,447	153,309	12,539	188,298	435,323	231,149
Wood Industries	645	20,110	242,641	22,715	447,267	870,023	410,509
Paper and Allied	287	43,488	681,113	197,186	1,440,021	2,826,617	1,207,415
Total	1,178	72,045	1,077,063	232,440	2,075,586	4,131,963	1,849,073
Furniture and Fixtures*	455	20,078	222,317	7,734	337,931	709,599	368,612
1978							
Logging	255	9,569	179,797	15,045	244,909	504,960	253,658
Wood Industries	707	21,942	279,260	27,712	541,657	1,077,962	515,321
Paper and Allied	319	45,209	747,394	228,829	1,616,288	3,145,697	1,317,821
Total	1,281	76,720	1,206,630	271,586	2,402,854	4,728,619	2,086,800
Furniture and Fixtures*	527	20,968	250,535	8,299	390,909	828,564	437,325
1979							
Logging	321	9,684	197,276	17,084	306,121	588,598	278,921
Wood Industries	761	22,902	320,144	31,134	690,807	1,319,647	629,169
Paper and Allied	334	46,172	827,101	252,576	2,007,803	3,872,205	1,661,591
Total	1,416	78,758	1,344,521	300,794	3,004,731	5,780,450	2,569,681
Furniture and Fixtures*	618	23,650	307,672	9,856	503,463	1,043,909	547,979
1980							
Logging	391	9,578	215,652	24,072	365,267	668,003	319,883
Wood Industries	778	21,348	328,793	33,475	712,130	1,275,892	562,631
Paper and Allied	349	47,861	926,779	279,530	2,368,722	4,598,977	1,992,117
Total	1,518	78,787	1,471,224	337,077	3,446,119	6,542,872	2,874,631
Furniture and Fixtures*	607	23,703	340,550	11,254	606,934	1,224,628	615,070
1981							
Logging	418	9,003	230,052	30,562	381,431	717,927	327,515
Wood Industries	774	20,970	362,998	43,705	791,939	1,436,082	619,138
Paper and Allied	342	47,381	1,044,810	324,780	2,702,821	5,129,829	2,136,084
Total	1,534	77,354	1,637,860	399,047	3,876,191	7,283,838	3,082,737
Furniture and Fixtures*	610	25,856	416,922	15,181	718,103	1,455,964	755,591

*Does not include furniture upholstery, re-upholstery and repair shops.

MINERAL RESOURCES GROUP★

Room W-6341, Main Office Telephone: (416) 965-4271

Executive Co-ordinator	J. E. Finlay	W-6341	4271
Secretary	Mrs. P. Barchuk	W-6341	4271

ONTARIO GEOLOGICAL SURVEY

Room 1121, 77 Grenville St., Toronto, Ont. M5S 1B3 Telephone: (416) 965-1283

Survey Director	Dr. E. G. Pye	R-1121	1283
Executive Officer	G. Fromhold-Treu	R-1118	1283
Program Evaluation Geologist	Dr. M. A. Lee	R-1117A	2095
Regional Liaison Geologist	C. R. Kustra	R-1119	5180
Geoscience Research Grant Program	Mrs. W. Paquette	R-1124	1546
Exploration Technology Dev. Fund	R. B. Watson	R-1125	1546
Precambrian Geology Section	J. Wood, Chief	R-916	1321
North Archean Group	H. Wallace	R-901	1827
Central Archean Group	Dr. P. C. Thurston	R-924	1827
South Archean Group	N. F. Trowell	R-907	4817
Proterozoic Group	Dr. B. O. Dressler	R-903	2326
Engineering & Terrain Geology Section	Dr. O. L. White, Chief	R-707	1182
Paleozoic & Mesozoic Subsection	Dr. P. G. Telford	R-706	1183
Hydrocarbon Energy Res. Program	Dr. P. G. Telford	R-706	1183
Quaternary Geology Subsection	E. V. Sado	R-705	1183
Aggregate Assessment Office	D. W. Scott	M1B-45	1663
Geophysics/Geochemistry Section	R. B. Barlow, Chief	R-708	1697
Mineral Deposits Section	Dr. A. C. Colvine, Chief	R-1026	4261
Geoservices Section	G. E. Soucie, Chief	R-915	5601
Geoscience Data Centre	H. A. Groen	R-804	4641
Assessment Files Research	R. C. Owen	R-819	6139
Geoscience Information	T. Soobrian	R-807	0190
Scientific Review	Mrs. G. M. Scott	R-718	7325
Geoscience Laboratories	Dr. C. Riddle	R-1117	1337
Mines Library	Mrs. N. Thurston	R-812	1352

★ See Mining Lands and Prospecting Activities under Lands Administration Branch

LIST OF FIELD SURVEYS (REGULAR PROGRAM)

Ontario Geological Survey 1982

No.	Location	Leaders
	PRECAMBRIAN GEOLOGY SECTION	
1	Red Lake Synoptic Project	H. Wallace
2	Birch Lake Area, Kenora District	S. E. Nelson
3	Meen Lake Area, Kenora District	G. M. Stott
4	Long Bay Area, Kenora District	G. W. Johns
5	Lake Nipigon Area	R. H. Sutcliffe
6	Kirby, Fulford, and McQuesten Townships	G. P. Beakhouse
7	Josephine Area, Algoma District	R. P. Sage
8	Wawa Area, Alteration of Metavolcanics	R. P. Sage
9	Batchawana Synoptic Project	E. C. Grunsky
10	Ile Parisienne and Rudderhead Point Areas	P. E. Giblin
11	Goulais River Area, Algoma District	P. E. Giblin
12	Brunswick Township	G. M. Siragusa
13.	Garson Township	P. E. Giblin
14.	Blezard Township	J. Martins
15.	Studies of Mafic Dike Swarms, Northern Ontario	R. E. Ernst
	ENGINEERING AND TERRAIN GEOLOGY PROGRAMS	
16	Long Point-Port Burwell Area	P. J. Barnett
17.	Evaluation of Remote Sensing Techniques to Locate Mineral Aggregate, Oxford Township	P. J. Barnett & V. H. Singhroy
18	Algonquin Park, Northeastern Area	M. J. Ford
19	Algonquin Park, Northwestern Area	R. S. Geddes
20	Sault Ste. Marie-St. Joseph Island Area	D. J. Russell
21.	Surface Stress-Release Phenomena Study	D. J. Russell
22.	Aggregate Resource Inventory, Southern Ontario	D. W. Scott
23.	[illegible] Geotechnical Data Collection	D. W. Sawicki
	GEOPHYSICS/GEOCHEMISTRY PROGRAMS	
24.	Night Hawk Geophysical Test Range Results	R. B. Barlow
25.	Electromagnetic Survey, Cochrane District	R. B. Barlow
26.	Lake Collection Methodology for Geochemical Samples, Wawa Area	J. A. C. Fortescue
27.	Gravity and Aeromagnetic Studies, North Central Ontario	V. K. Gupta
28.	Gravity Interpretation of Sudbury Igneous Complex	V. K. Gupta
	MINERAL DEPOSIT PROGRAMS	
29.	Felsic Intrusion Associated Lode Gold Deposits	M. E. Cherry
30.	Volcanic-Hosted Gold Deposits, Red Lake Area	A. J. Andrews
31.	Madsen Gold Area, Kenora District	M. E. Durocher
32.	MacLeod-Cockshutt and Hard Rock Mines	A. J. Macdonald
33.	Gold Deposits of the Abitibi Belt	C. J. Hodgson

34.	Placer Gold Potential, Gowganda Formation	D. F. G. Long
35.	Lundy Township (north half)	L. Owsiacki
36.	Ag-Co-Ni Arsenide Vein Studies, Timiskaming District	A. J. Andrews
37.	Gold and Base-Metal Vein Deposits, Eastern Ontario	J. S. Springer
38.	Graphite and Other Carbon-Rich Minerals, Grenville Area	J. S. Springer
39.	Industrial Minerals Studies	M. A. Vos
40.	Huronian Paleoplacer Gold Metallogenic Study	A. C. Colvine

LIST OF FIELD SURVEYS (SPECIAL PROGRAM)

Ontario Geological Survey 1982

No.	Location	Leaders
	PRECAMBRIAN GEOLOGY PROGRAMS	
1.	Lumby Lake Area (eastern half)	M. C. Jackson
2.	Mishewawa Lake Area, Algoma District	N. W. D. Massey
3.	Black River-Matheson Area, Cochrane District	N. F. Trowell
4.	Hart, Ermatinger, and Totten Townships	A. G. Choudhry
5.	Footwall Study of the Sudbury Igneous Complex	B. O. Dressler
6.	Onaping Formation Study, Sudbury District	T. L. Muir
7.	Wicklow Area, Hastings County	F. W. Breaks
8.	Lavant Area, Frontenac and Lanark Counties	L. Pauk
9.	Grenville Province, Carbonate Metasediment Study	M. S. Bourque
10.	Queensborough Road Talc Occurrence, Elzevir Township	C. P. Verschuren
	ENGINEERING AND TERRAIN GEOLOGY PROGRAMS	
11.	Kamiskotia Lake-Pamour Area, Cochrane District	J. A. Richard
12.	St. Joseph Island Area, Algoma District	P. F. Karrow
13.	Sediment Studies in Eskers, Kirkland Lake Area	C. L. Baker
14.	Sydenham, Bath, and Yorkshire Island Areas	J. G. Leyland
15.	Stratigraphic Significance of the Dummer Moraine	P. F. Finamore
16.	Ottawa-St. Lawrence Lowland (northern part)	D. A. Williams
17.	Oil Shale Assessment Project	M. D. Johnson
18.	Comparative Study of Some Peatlands, Northern Ontario	W. Shotyk & P. G. Telford
	GEOPHYSICS/GEOCHEMISTRY PROGRAMS	
19.	Geochemistry and Mineralogy of Basal Till, Kirkland Lake Area	J. A. C. Fortescue & J. Lourim
20.	Till Drilling Project, Kirkland Lake Area	J. A. Fortescue
	MINERAL DEPOSITS PROGRAMS	
21.	Selected Industrial Mineral Occurrences, Southern Ontario	E. P. Dillon & P. S. Barron

GEOSCIENCE RESEARCH GRANT PROGRAM

Summary of projects and allocations in years ending March 31

Universities	1980 Projects	1981 Projects	1982 Projects	1983 Projects
Brock	—	1	2	1
Carleton	3	2	1	2
Guelph	—	—	—	—
Lakehead	—	1	—	—
Laurentian	2	3	1	—
McMaster	1	1	1	1
Ottawa	2	—	—	—
Queen's	2	3	1	3
Toronto	8	10	8	9
Waterloo	2	2	2	3
Western	5	5	4	2
Windsor	2	1	1	1
York	—	—	—	1
Total	27	29	21	23
	$475,567	$536,447	$418,289	$500,000

EXPLORATION TECHNOLOGY DEVELOPMENT FUND PROGRAM

Summary of projects and allocations in years ending March 31

Company	Projects Accepted 1982	Projects Accepted 1983
Alpha NUCLEAR Company	1	1
Androtex Ltd.	—	1
C. W. Archibald Limited	—	1
Barringer Magenta Limited	2	—
Crone Geophysics Limited	1	1
Dighem Limited	—	1
EDA Instruments Incorporated	1	—
Gem Systems Limited	1	1
Geotech Limited	1	1
Herz Industries Limited	—	1
Huntec ('70) Limited	—	1
Lamontagne Geophysics Limited	1	1
McPhar Instruments Corporation	—	1
Nuclear Activation Services Limited	1	1
Paterson, Grant & Watson Limited	1	1
Phoenix Geophysics Limited	1	1
Questor Surveys Limited	2	2
Scintrex Limited	1	1
Technical Services Laboratories Limited	1	0
Accepted	15	17
ALLOCATIONS	$780,520	$1,076,166

PUBLICATIONS RELEASED

Ontario Geological Survey

Types of Publication	1978	1979	1980	1981	1982
Preliminary Maps	200	183	205	134	143
Colored Geology Maps	12	14	9	21	12
N. Ontario Engineering & Terrain Geology	—	11	51	31	—
Geophysical/Geochemical	253	426	34	77	36
Aggregate Resource Inventory Papers	—	1	21	19	18
Guidebooks	—	1	—	—	—
Mineral Deposit Circulars	1	2	—	4	1
Miscellaneous Papers	6	7	7	8	7
Non-Serial Publications	2	3	4	7	9
N. Ontario Engineering & Terrain Studies	—	—	42	24	—
Open File Reports	22	22	42	41	32
Reports	16	11	7	12	10
Studies	—	1	—	1	3

ASSESSMENT FILES RESEARCH OFFICE

Office Operations	1978	1979	1980	1981	1982	1946-82
FILES ADDED						
Technical surveys and Summaries for Assessment Credit	300	350	453	821	860	8,698
MEAP	50	50	46	35•		518
Ontario Securities Commissions & Misc	75	77	150	75	72	1,264
Drilling Reports	320	340	310	388	361	9,780
Licence of Occupation	(a)	(a)	(a)	3	3	83
OPERATIONS						
Inquiries	3,527	2,182	2,577	2,567	2,214	—
Files Examined	14,343	15,640	17,696	17,769	14,603	

• Program discontinued

(a) Uncertain of exact totals

MINERAL RESOURCES BRANCH

Room W-4626, Main Office Telephone(416) 965-1559

Branch Director	Dr. T. P. Mohide	W-4626	5-1559
Mineral Statistics Section	G. Weatherson, Spvr	W-4632	5-0211
Metallic Minerals Section	Dr. G. Anders, Spvr	W-4625	5-1311
Industrial Minerals Section	S. E. Yundt, Spvr	W-4626	5-1172
Fuel Minerals Section	S. Keen, Spvr	W-4629	3-1882

ONTARIO MINERAL PRODUCTION IN 1981 AND 1982

1981 figures show final completion of shipments
1982 figures are preliminary

METALLIC MINERALS	Unit	1981 Quantity	1981 Value $	1982 Quantity	1982 Value $
Bismuth	kg	312	2,170	2,000	11,000
Cadmium	kg	609,215	2,959,469	475,000	1,437,000
Calcium	kg	469,403	3,512,073	329,000	2,304,000
Cobalt	kg	1,831,319	94,392,310	1,188,000	36,976,000
Copper	kg	226,384,780	521,019,544	172,873,000	336,307,000
Gold	g	18,307,895	333,797,134	19,802,000	293,856,000
Iron Ore	tonne	5,394,620	245,462,549	3,748,000	187,309,000
Lead	kg	3,383,521	4,008,744	6,251,000	4,527,000
Magnesium	kg	8,548,042	29,439,456	7,630,000	22,890,000
Nickel	kg	130,268,510	1,001,217,989	63,065,000	412,930,000
Platinum Group	kg	11,905	136,239,362	8,590	98,889,000
Selenium	kg	28,576	679,823	28,000	526,000
Silver	kg	328,779	136,969,048	345,000	108,448,000
Tellurium	kg	4,445	159,575	3,000	103,000
Tin	kg	88,774	1,479,882	34,000	601,000
Uranium (U)	kg	4,859,497	522,011,958	4,955,000	550,586,000
Zinc	kg	246,030,807	286,283,503	256,483,000	275,204,000
Total Value, Metallic			3,319,634,589		2,332,904,000

NON-METALLICS	Unit	1981 Quantity	1981 Value $	1982 Quantity	1982 Value $
Barite	tonne	5,000	1,100,000	N/A	1,000,000
Feldspar	tonne	960	18,000	N/A	N/A
Gemstones	kg	50,000	54,000	N/A	65,000
Gypsum	tonne	649,546	5,477,033	506,000	4,506,000
Magnetite	tonne	7,218	78,214	N/A	N/A
Nepheline Syenite	tonne	587,565	17,531,692	518,000	17,338,000
Peat	tonne	9,205	1,201,993	4,000	525,000
Quartz	tonne	427,189	9,787,492	295,000	7,805,000
Salt	tonne	4,968,503	80,888,513	5,479,000	97,701,000
Serpentine Filler	tonne	3,672	487,906	N/A	N/A
Soapstone, Talc, Pyrophyllite	tonne	18,229	2,591,565	N/A	3,429,000
Sulphur in smelter gas	tonne	417,772	16,735,943	N/A	12,673,000
Sulphur Elemental	tonne	29,065	1,842,410	N/A	1,870,000
Terrazzo Chips	tonne	1,947	110,691	N/A	N/A
Total Value, Non-Metallics			137,905,452		146,912,000

FUELS	Unit	1981 Quantity	1981 Value $	1982 Quantity	1982 Value $
Natural Gas	000 cu.m	419,271	34,556,335	407,000	38,195,000
Petroleum	cu.m	89,983	11,111,980	89,000	13,764,000
Total Value, Fuels			45,668,315		51,959,000

STRUCTURAL MATERIALS	Unit	1981 Quantity	1981 Value $	1982 Quantity	1982 Value $
Clay Products		N/A	66,660,263	N/A	50,946,000
Cement	tonne	3,787,237	205,062,550	2,800,000	215,208,000
Lime	tonne	1,836,168	94,699,716	1,463,000	99,484,000
Sand & Gravel	tonne	70,191,371	134,335,610	60,000,000	125,000,000
Stone	tonne	37,546,346	126,905,736	32,000,000	128,000,000
Total Value Structural Materials			627,663,875		618,638,000
GRAND TOTAL FOR ONTARIO			4,130,872,231		3,150,413,000

Source: Mineral Statistics Section, Ministry of Natural Resources.

DIRECT COSTS OF THE MINERAL INDUSTRY IN ONTARIO

Year	Total Employment	Wages & Salaries	Fuel & Electricity	Process Supplies	Total Cost
1975	44,329	568,817,097	154,748,157	375,688,838	1,099,254,092
1976	44,585	647,549,765	199,216,913	424,029,472	1,270,796,150
1977	43,782	688,435,301	224,263,043	429,950,598	1,342,648,942
1978	33,234	589,143,142	199,018,565	392,059,456	1,180,221,163
1979	33,860	675,471,862	245,536,846	447,427,618	1,368,436,326
1980	41,252	863,044,670	296,889,343	601,153,558	1,761,087,571
1981****	41,522	982,665,625	349,709,968	673,489,373	2,005,864,966

**** 43,700 including 2,200 estimate of small sand, gravel and stone industries
Source: Mineral Statistics Section, Ministry of Natural Resources.

VALUE OF ONTARIO MINERAL OUTPUT BY MNR REGIONS

MNR Regions	1979	1980	1981
	$	$	$
ALGONQUIN REGION			
Metallic minerals	—	54,697,685	57,453,827
Non-metallic minerals	—	16,601,372	17,609,906
Structural materials	—	10,069,196	7,492,080
Total	85,026,932	81,368,253	82,555,813
CENTRAL REGION			
Natural gas, petroleum	2,248,754	995,055	1,165,152
Non-metallic minerals	4,789,766	5,753,434	6,051,925
Structural materials	259,454,996	284,761,165	310,159,188
Total	266,493,516	291,509,654	317,376,265
EASTERN REGION			
Metallic minerals	—	—	—
Non-metallic minerals	—	771,755	626,327
Structural materials	—	95,298,546	110,245,387
Total	100,971,141	96,070,301	110,871,714
NORTH CENTRAL REGION			
Metallic minerals	214,719,805	156,468,788	107,652,059
Non-metallic minerals	—	698,156	822,162
Structural materials	4,127,021	3,975,687	7,457,705
Total	218,846,826	161,142,631	115,931,926
NORTHERN REGION			
Metallic minerals	584,530,403	747,565,752	663,110,786
Non-metallic minerals	2,228,022	3,752,770	6,529,727
Structural materials	3,841,462	4,501,871	3,819,641
Total	590,599,887	755,820,393	673,460,154
NORTHEASTERN REGION			
Metallic minerals	1,356,670,381	2,435,663,070	2,194,717,693
Non-metallic minerals	12,402,041	17,737,296	22,278,600
Structural materials	14,627,428	30,563,152	33,717,112
Total	1,383,699,850	2,483,963,518	2,250,713,405
NORTHWESTERN REGION			
Metallic minerals	339,401,530	414,769,590	296,700,224
Non-metallic minerals	—	885,049	884,781
Structural materials	5,047,880	7,429,567	7,466,573
Total	344,449,410	423,084,206	305,051,578

SOUTHWESTERN REGION			
Natural gas, petroleum	27,430,246	42,273,550	44,503,163
Non-metallic minerals	69,134,668	72,904,536	83,102,024
Structural materials	148,831,020	143,629,290	147,306,189
Total	245,395,934	258,807,376	274,911,376
Sand and gravel produced in unorganized territories	5,127,386	—	—
ONTARIO TOTAL	3,240,610,882	4,551,766,332	4,130,872,231

Source: Mineral Statistics Section, Ministry of Natural Resources.

MINING TAXATION & OMEP OFFICE

Room W-4649, Main Office Telephone (416) 965-1062

Director and The Mine Assessor	K. S. Rachamalla	W-4649	1062
Assistant Mine Assessors	A. Cutrona	W-4653	9955
	R. Gunther	W-4652	9955
	J. Sheehan	W-4654	9955
	A. Stoddart	W-4641	9955
OMEP			
Administrator	F. W. Pooley	W-4650	1062
Evaluator	J. B. Gordon	W-4651	1062

MINING TAX

Summary of mining tax in years ending March 31

	1981 $ value millions	1982 $ value millions	1983 $ value millions
Mining Tax Collected	160.5	55.4	26.2
Total value of mineral production assessed	2,550.0	1,720.9	2,530.0
Taxes payable per assessments	44.5	88.9	96.2
Total additional tax, Interest & penalty	1.1	2.2	12.1
Total refund of taxes (paid in advance)	0.8	4.8	4.8
No. of assessments completed	45	48	48

OMEP DESIGNATED PROGRAMS REGIONAL DISTRIBUTION

In years ending March 31

MNR Regions	No. of Programs 1981	1982	1983	Total Expenditure ($ million) 1981	1982	1983	% of Total 1981	1982	1983
Northern	46	54	66	19.8	8.6	14.3	58.4	33.1	34.8
Northwestern	16	21	47	5.6	5.7	9.5	16.6	21.7	23.1
Northeastern	14	23	18	6.6	5.6	4.9	19.4	21.3	11.9
North Central	12	25	70	1.6	5.0	10.5	4.9	19.0	25.6
Algonquin & Eastern	6	14	12	.2	1.3	1.9	.7	4.9	4.6
Total	94	137	213	$33.9	$26.2	$41.1	100.0%	100.0%	100.0%

OMEP DESIGNATED PROGRAMS BY COMMODITIES

In years ending March 31

	Total Expenditure ($ million) 1981	1982	1983	% of Total 1981	1982	1983
Gold, Silver	29.3	20.3	34.8	86.3	77.6	84.7
Base Metals	1.2	1.6	1.4	3.5	6.2	3.4
Industrial Minerals	3.0	4.2	2.8	9.0	16.0	6.8
Other (uranium, etc.)	.4	.1	2.1	1.2	.2	5.1
Total	$33.9	$26.2	$41.1	100.0%	100.0%	100.0%

DETAILS OF COMPLETED OMEP PROGRAMS: REGIONAL DISTRIBUTION

In years ending March 31

	No. of Programs		Total Expenses ($ million)		Eligible Expenses ($ million)		Grant/ Tax Credit ($ million)		% of Total	
	1982	1983	1982	1983	1982	1983	1982	1983	1982	1983
Northern	22	60	4.3	11.5	2.9	8.9	.73	2.21	58.9	47.9
Northwestern	10	35	.8	4.8	.8	4.0	.19	1.01	11.0	20.0
Northeastern	9	19	1.3	2.6	1.2	2.1	.31	.51	17.8	10.8
North Central	8	25	.8	4.6	.6	3.3	.14	.83	11.0	19.2
Algonquin & Eastern	4	10	.1	.5	.1	.4	.02	.11	1.3	2.1
Total	53	149	7.3	24.0	5.6	18.7	1.39	4.67	100.0%	100.0%

DETAILS OF COMPLETED OMEP PROGRAMS: ECONOMIC BENEFITS

In years ending March 31

	1981	1982	1983
EMPLOYMENT			
Number Employed	430	550	1,600
Work days	13,550	17,710	61,780
WAGES ($ million)	$1.1	$1.7	$6.6
GOODS & SERVICES ($ million)	$5.0	$5.6	$17.4
DIAMOND DRILLING (metres)	50,450	37,400	133,550

OUTDOOR RECREATION GROUP

Room W-2340, Main Office Telephone (416) 965-5661

Executive Co-ordinator	T. J. Millard	W-2341	5-5661
Secretary	N. Ball	W-2340	5-5661
Provincial Fisheries Scientist	K. H. Loftus	W-2342	5-5661
Enforcement Specialist	W. D. Gartley	W-2342	5-5661
Librarian	S. Louet	W-4540	5-6319
Provincial Parks Council, Chairman	F. Gray	(416) 368-8305	Ex.2574

WILDLIFE BRANCH

Room W-2320, Main Office Telephone (416) 965-4252

Branch Director	J. D. Roseborough	W-2327	4254
Program Development & Audit Section	D. A. Hagan, Spvr.	W-2321	4252
Habitat Development	D. L. Euler	W-2323	4252
Moose/Caribou Program	R. A. Stefanski	W-2331	4252
Upland Game/Waterfowl Program	J. L. Harcus	W-2332	4252
Deer/Bear Program	H. Smith	W-2322	4252
Non-game Program	I. E. Bowman	W-2330	4252
Wetland Habitat Co-ordination	V. A. Glooschenko	W-2309	7641
Policy Development Section	L. J. Post, Spvr	W-2325	7641
Wildlife Policy Specialist	P. Allen	W-2306	7641
Wildlife Policy Specialist	W. L. Sleeth	W-2307	7641
Extension Development Section	L. Whistance-Smith, Spvr	W-2326	4252
Wildlife Services Section	M. C. Smith, Spvr.	W-2328	4252
Commercial Wildlife Program	M. Novak	W-2423	3345
Hunter Education	W. M. McKittrick	W-2333	4252
Legal Services	M. Chromec	W-2329	4252
Data System	J. M. Barbowski	W-2304	7641

Box 50, Maple, Ont. L0J 1E0 Telephone (416) 832-2761

Wildlife Research Section	C. D. MacInnes, Spvr	Extension 241
Population Dynamics	D. J. Hussel	Extension 241
Bio-Electronic Scientist	J. S. Lotimer	Extension 241
Field Studies Scientist	D. R. Voigt	Extension 241
Rabies Unit Leader	D. H. Johnston	Extension 241
Upland Game/Waterfowl Scientist	H. G. Lumsden	Extension 241
Predator Scientist	G. B. Kolenosky	Extension 241
Disease/Parasites Scientist	E. M. Addison	Extension 241

HUNTING STATISTICS — Estimates compiled from hunters surveyed by mail

Comparison between hunter numbers and licence sales gives an estimate of the number of licence holders who did not hunt

MOOSE	RESIDENT			NON-RESIDENT			TOTALS		
Year	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
1976	75,670	543,200	9,420	7,770	55,400	1,450	83,440	598,600	10,870
1977	66,240	470,000	7,730	6,280	45,000	1,290	72,550	515,700	9,020
1978	79,210	542,000	10,630	6,970	52,100	1,320	86,180	594,100	11,950
1979	70,770	529,400	10,110	7,220	54,600	1,580	77,990	584,000	11,690
1980	71,670	426,700	7,670	3,930	25,200	690	75,600	451,900	8,360
1981	66,850	405,500	7,630	3,110	19,400	460	69,960	429,900	8,090

DEER	RESIDENT			NON-RESIDENT			TOTALS		
Year	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
1976	78,250	433,900	14,180	3,240	16,700	*930	81,490	450,600	*15,110
1977	85,840	433,200	13,510	2,720	14,300	*810	88,200	447,500	*14,310
1978	87,950	450,100	13,490	2,860	14,600	*480	90,810	464,700	*13,970
1979	78,440	415,800	13,200	1,560	8,700	*370	80,000	424,500	*13,570
1980	80,280	443,200	9,150	780	4,400	*110	81,060	447,600	9,260

SMALL GAME**	RESIDENT		NON-RESIDENT	
Year	Hunters	Hunter Days	Hunters	Hunter Days
1974-75	225,840	3,299,000	7,380	52,100
1976-77	242,310	3,388,000	8,530	62,300
1978-79	226,693	2,975,400	8,724	55,100
1979-80	214,550	2,829,600	10,520	65,700
1980-81	220,020	2,781,300	11,170	76,100

SUMMER HUNTING	RESIDENT	
Year	Hunters	Hunter Days
1972	18,720	369,500
1974	16,380	291,800
1975	16,170	246,800

* Includes deer harvested on moose licences.
** Includes waterfowl.

EXPENDITURE BY HUNTERS — (Excluding Licence Fees)

Survey Year*	Hunt	Estimates Compiled from Hunters Surveyed by Mail		
		Resident	Non-Resident	Total
1973-74	Bear	$ 255,000	$2,336,000	$ 2,591,000
1973-74	Moose	13,791,000	6,070,000	19,861,000
1976-77	Moose	17,821,000	3,192,000	21,013,000
1976-77	Deer	12,000,000	809,000	12,809,000
1976-77	Small Game	53,561,000	3,252,000	56,813,000
1978-79	Small Game	47,634,000	3,278,431	50,912,431
1979-80	Moose	22,833,000	3,803,000	26,636,000
1979-80	Deer	14,892,000	548,000	15,440,000
1979-80	Small Game	47,162,000	4,413,000	51,575,000
1980-81	Moose	21,334,000	2,302,000	23,636,000
1980-81	Deer	15,887,000	297,000	16,184,000
1980-81	Small Game	50,000,000	4,563,000	54,563,000
1981-82	Moose	23,576,000	1,929,000	25,505,000

HUNTING LICENCES SOLD

Year	DEER		MOOSE		BEAR	
	Resident	Non-Res	Resident	Non-Res	Resident	Non-Res
1977-78	95,114	4,501	74,834	6,392	1,872	8,977
1978-79	97,477	4,453	87,751	7,186	2,672	10,477
1979-80	85,921	1,762	77,937	7,378	2,666	11,247
1980-81	87,985	823	79,688	4,011	9,064	11,682
1981-82	91,695	630	73,851	3,214	13,736	13,341

Year	SMALL GAME		TOTAL		
	Resident	Non-Res	Resident	Non-Res	Total
1977	389,014	9,225	569,834	29,095	589,929
1978	399,943	9,651	587,643	31,767	619,410
1979	353,077	11,527	519,601	31,914	551,515
1980-81	383,091	12,783	559,828	29,299	589,127
1981-82	368,770	12,492	550,924	29,677	580,601

FUR HARVESTS — in years ending June 30

Average Pelt Value, 1980		Totals from Sealing Officers' Reports and Fur Dealers' Returns 1977	1978	1979	1980	1981
$ 34.36	Beaver	136,856	147,556	170,644	209,135	181,383
30.20	Mink	14,856	20,557	21,704	27,377	29,944
26.63	Marten	20,768	38,878	52,169	45,861	45,305
60.87	Otter	7,835	8,592	9,943	11,112	10,952
141.55	Fisher	2,165	2,693	3,300	4,457	4,013
267.71	Lynx	1,151	1,722	1,873	2,485	2,361
126.37	Bobcat	24	16	30	33	21
7.48	Muskrat	435,290	433,163	526,890	605,966	554,894
29.67	Raccoon	44,223	93,178	105,263	116,249	108,164
1.35	Squirrel	5,817	4,180	7,645	16,922	15,836
.89	Weasel	3,576	3,685	5,694	6,100	7,187
71.29	Col'rd Fox	10,131	15,979	19,282	18,854	15,548
29.79	Arctic Fox	101	199	164	176	163
89.33	Timb. Wolf	285	431	381	342	748
54.47	Coyote	2,276	4,394	3,218	3,819	2,646
52.31	Black Bear	283	284	511	818	482
185.36	Wolverine		11	8	9	9
3.05	Skunk	98	210	453	662	438
45.17	Grey Fox	...	1	3	1	6
488.33	Polar Bear	17	24	21	20	27
Total Pelts		685,752	775,753	929,196	1,070,398	980,127
Total Value		7,998,708	11,284,007	20,234,367	24,407,054	18,965,648

TRAPPER LICENCES, 1981

Registered	3,123	@ $5 =	$15,615
Resident	9,991	@ $5 =	49,955
Farmer, Indian Res	1,612	@ $0 =	.....
Registered Treaty	3,315	@ $1 =	3,315
Resident Treaty	25	@ $5 =	125
Totals	18,071		$69,010
Raccoon Hunters	3,231	@ $5 =	$16,155

HUNTER EDUCATION PROGRAM

Training began in 1957. It became mandatory for new hunters in 1960 and for new hunters under the age of 20 years in 1968.

Year	ACTIVE INSTRUCTORS at Dec. 31	STUDENTS TRAINED Yearly	To Date	HUNTING ACCIDENTS Non-Fatal	Fatal	Total
1977	1,011	32,126	452,298	67	4	71
1978	879	38,500	490,798	60	8	68
1979	1,110	35,080	525,878	46	5	51
1980	1,320	38,730	564,608	56	6	62
1981	1,406	39,625	604,233	33	3	36

Total royalties collected in the 1980-81 season were $1,115,412.

29 PROVINCIAL WILDLIFE AREAS

	Hectares
Aylmer Provincial Wildlife Area	150
Brighton Provincial Wildlife Area	388
Bruce Recreation Area	3 925
Camden Lake Wildlife Management Area	1 052
Darlington Provincial Park	111
Fingal Provincial Wildlife Area	293
Gananoque Provincial Wildlife Area	580
Holiday Beach Provincial Park	198
Holland Marsh Provincial Wildlife Area	573
Hoople Creek Provincial Wildlife Area	105
Hulett Provincial Wildlife Area	2 794
Kolapore Uplands Recreational Area	4 209
Long Point Provincial Wildlife Area	500
Luther Marsh Wildlife Area	5 666
Matchedash Bay Provincial Wildlife Area	225
Mountain Provincial Wildlife Area	1 457
Nonquon River Wildlife Area	1 133
Point Petre Provincial Wildlife Area	1 276
Presqu'ile Provincial Park	931
Puslinch Crown Resource Management Area	138
Rankin Wildlife Management Area	3 800
Rondeau Provincial Park	4 654
St. Edmunds Provincial Wildlife Area	6 799
Scugog Island	182
Sibbald Point Provincial Park	225
Stag Island Wildlife Management Area	17
Tiny Marsh Provincial Wildlife Area	931
Wye Marsh Provincial Wildlife Area	919

13 WILDLIFE EXTENSION LANDOWNER AGREEMENT AREAS

	Hectares
Aylmer Ponds	43
Beverly Swamp	430
Binbrook	401
Calton Swamp	96
Christie	340
Crooks Hollow	17
Hawk Cliff	34
Lake St. Lawrence	6 070
Mud Lake	61
Orangeville Reservoir	316
Valens	223
Waterford Lakes	290
Willoughby Marsh	227

ENFORCEMENT STATISTICS 1982-83

Region	Number of Field Conservation Officers	Number of F. & W. Contracts	Number of F. & W. Warnings	Number of F. & W. Charges	Number of non-F. & W. Charges
Eastern	25	49,386	1,248	994	245
Central	28½	49,724	2,659	1,081	950
Algonquin	29	38,355	1,715	823	740
Northern	23	29,602	807	805	97
North Central	22	30,815	800	583	238
Northeastern	34½	52,280	1,130	966	131
Northwestern	24	51,952	1,101	963	—
Southwestern	30	34,490	2,389	948	1,318
Totals	216½	336,604	11,849	7,163	3,719

ENFORCEMENT STATISTICS 1982-83

Total Amount of F. & W. Charge Fines	Total Amount of Other Charge Fines	Total Amount of Fines	Total Number F. & W. Convictions	Total Number of Cases Pending	Total Other Convictions
52,627	16,106	68,733	740	16	243
92,221	47,785	140,006	961	12	916
52,760	32,249	85,009	742	17	700
91,717	3,360	95,077	666	3	70
46,736	11,304	58,040	478	18	202
72,110	7,283	79,393	883	—	145
85,925	—	85,925	817	64	—
88,026	71,843	159,869	822	135	1,278
$582,122	$189,930	$772,052	6,109	265	3,554

PARKS AND RECREATIONAL AREAS BRANCH

Room W-3329, Main Office Telephone (416) 965-5160

Branch Director	N. R. Richards	W-3329	5160
Policy Co-ordinator	K. G. McCleary (actg)	W-3328	2745
Secretary	Mrs. N. Koohtow	W-3328	5160
Planning Manager	G. D. Boggs	W-3342	3981
Planning Secretary	Mrs. E. Mason	W-3342	3981
Sr. Planner, Research	D. Hallman	W-3344	3981
Sr. Planner, Parks & Heritage Res.	M. Garscadden	W-3343	3981
Sr. Planner, Rec. Areas & Resources	R. Phillips (actg)	W-3350	3981
Management Information Specialist	D. Driscoll	W-3352	3981
Recreational Areas Planner	(Vacant)	W-3350	3981
Earth Sciences Planner	R. J. Davidson	W-3349	3981
Life Sciences Planner	T. J. Beechey	W-3348	3981
Cultural Resources Planner	G. Forma	W-3345	3981
Planning Technician	R. Speck	W-3351	3981
Operations Manager	W. Robertson	W-3301	1245
Operations Secretary	Mrs. J. Miller	W-3301	1245
Operations Stenographer	Ms. R. Coombs	W-3301	1245
Parks Technician	B. van Staalduinen	W-3311	1245
Park Operations Specialist	B. van Staalduinen (actg)	W-3311	1245
Visitor Services Specialist	G. Forma (actg)	W-3301	1245
Recreational Areas Technician	B. Huis	W-3311	1245
Extension Specialist	F. Bishop	W-3301	6278
Mgmt. Information Clerk	Ms. D. Gluzdziecka	W-3301	1245
Development Manager	G. Ashenden	W-3326	2745
Development Secretary	Mrs. G. Shaw	W-3326	2745
Development Clerk	Ms. P. A. Naylor	W-3326	2745
Development Typist	Mrs. R. Watkins	W-3320	2745
Senior Landscape Architect	G. Pittenger	W-3330	2745
Landscape Architect	J. Huang	W-3330	2745
Development Engineer	R. H. Lockwood	W-3324	2745
Design Engineer	I. Johnson	W-3322	2745
Environmental Sanitation Co-ord.	S. Cowan	W-3327	2745
Draftsperson	Ms. M. Lehoczky	W-3330	2745
Architectural Designer	H. Miles	W-3320	2745
Sanitary Engineer	J. Kolodziej	W-3323	2745
Electrical Designer	J. Konya	W-3320	2745
Facility Designer	A. Chappelle	W-3320	2745
Mechanical Designer	G. Szepielewicz	W-3320	2745

PUBLIC USE OF PROVINCIAL PARKS

Year	Vehicle Entries	Interior Campers	Campers	Average Days	Camper Nights	Total of Visitors
1978	2,940,238	82,601	1,324,808	2.3	3,116,421	9,570,382
1979	(NR)	73,961	1,355,733	2.4	3,259,752	**5,161,563
1980	(NR)	76,136	1,319,762	2.4	3,195,477	5,210,712
1981	(NR)	74,199	1,321,494	2.5	3,283,299	****5,948,528
1982	(NR)	80,550	1,267,974	2.6	3,287,603	6,250,777

VISITOR SERVICES PROGRAM ATTENDANCE

Organized Events/Activities

Year	Parks	Guided Tours	Personal Services Evening Programs	Film Programs	School Programs	Children's Programs	Special Events	Other
1982	67	30,604	82,693	60,131	22,328	14,105	76,618	81,515

Indoor Facilities			Outdoor Self-Use Facilities			
Indoor Displays Museums	Activity Centre	Other	Open Air Displays/ Exhibits	Interpretive Trails	Other Trails	Other
320,551	95,812	46,329	153,614	319,657	103,999	34,452

PUBLICATIONS

Priced	Other	Free
74,635	563	102,380

Total Visitor Services Program Attendance

\+ 1,442,408

GROWTH OF PROVINCIAL PARKS

AREAS in hectares

Year	Camping		Reserve Areas		Provincial Parks	
	Parks	Units	No.	ha	No.	ha
1978	98	20,176	139	964,334	128	4,269,268
1979	97	20,723	134	920,558	128	*4,255,375
1980	97	20,723	101	949,726	131	4,257,266
			37	***18,167		
1981	97	20,757	101	949,726	131	4,252,960
			37	18,167		
1982	97	20,393	97	944,337	133	4,258,632
			37	18,167		

* Boundaries of some parks redefined.
** Visitation calculated from permit sales.
*** Any area acquired by MNR for recreational or other purposes but not intended for designation as a provincial park.
**** Includes free day-use visitors.
NR — Vehicle entries no longer recorded.
\+ Publications - not included.

133 PROVINCIAL PARKS IN OPERATION IN 1982

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHWESTERN REGION				
RED LAKE				
Pakwash	631	60	1,383	2,472
KENORA				
Rushing River	190	192	18,498	48,858
Sioux Narrows	129	71	7,078	10,587
FORT FRANCES				
Caliper Lake	134	92	7,301	12,707
Lake of the Woods	1,097	100	5,221	11,029
DRYDEN				
Aaron	70	98	5,776	7,803
Blue Lake	354	188	11,312	35,619
SIOUX LOOKOUT				
Ojibway	2,630	50	5,681	5,681
IGNACE				
Sandbar Lake	3,157	75	7,174	9,943
Total, 9 Parks	8,392	926	69,424	144,699
NORTH CENTRAL REGION				
ATIKOKAN				
Quetico (Dawson Trail)	475,819	133	4,288	9,510
THUNDER BAY				
Inwood	33	85	3,858	3,975
Kakabeka Falls	420	156	24,088	33,580
Middle Falls	4	25	1,682	1,893
Sibley	24,435	200	12,189	26,151
NIPIGON				
Lake Nipigon	1,458	80	2,421	3,347
GERALDTON				
Klotz Lake	119	30	1,114	1,420
MacLeod	74	85	4,045	12,136
TERRACE BAY				
Neys	3,445	146	14,438	19,195
Rainbow Falls	575	230	14,425	18,604
Total, 10 Parks	506,382	1,170	82,548	129,811
NORTHERN REGION				
HEARST				
Fushimi Lake	5,294	45	2,453	6,444
Nagagamisis	8,131	165	3,075	10,504
MOOSONEE				
Polar Bear	2,408,700	—	—	—
Tidewater	980	36	723	723
KAPUSKASING				
Remi Lake	2,964	122	4,314	11,404
COCHRANE				
Greenwater	5,350	104	3,782	6,629
TIMMINS				
Kettle Lakes	1,261	165	8,001	24,787

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
KIRKLAND LAKE				
Esker Lakes	3,237	136	4,717	12,043
Kap-Kig-Iwan	276	64	3,738	6,242
CHAPLEAU				
Five Mile Lake	456	43	2,034	3,491
Ivanhoe Lake	1,589	149	4,268	13,269
Missinaibi Lake	44,061	50	2,296	7,966
The Shoals	11,198	58	2,845	5,423
Wakami Lake	8,806	68	2,748	11,693
Total, 14 Parks	2,502,303	1,205	44,994	120,618
NORTHEASTERN REGION				
WAWA				
Lake Superior	155,659	307	23,200	35,216
Michipicoten	289	—	—	—
Obatanga	9,409	132	12,776	15,441
White Lake	1,726	280	15,155	22,502
SAULT STE. MARIE				
Batchawana	169	—	—	—
Pancake Bay	466	340	28,490	44,348
BLIND RIVER				
Mississagi	2,883	100	4,490	13,579
ESPANOLA				
Chutes	108	100	18,531	24,757
SUDBURY				
Fairbank	105	160	7,012	19,150
Halfway Lake	4,730	215	13,476	38,079
Killarney	34,126	122	7,330	27,478
Windy Lake	118	83	3,812	11,159
TEMAGAMI				
Finlayson Point	37	114	6,351	14,639
NORTH BAY				
Antoine	12	30	34	38
Marten River	418	216	9,126	23,881
Restoule	662	278	8,316	36,759
Samuel de Champlain	2,349	216	9,362	21,592
Total, 17 Parks	213,266	2,693	167,461	348,618
ALGONQUIN REGION				
PARRY SOUND				
Grundy Lake	2,554	520	20,558	60,926
Killbear	1,756	889	36,349	173,587
Oastler Lake	32	148	11,547	31,260
Sturgeon Bay	14	82	4,392	14,855
BRACEBRIDGE				
Arrowhead	963	389	27,415	74,875
Mikisew	131	265	10,005	32,629
BANCROFT				
Lake St. Peter	25	62	3,215	8,503
Petroglyphs	1,555	—	—	—
Silent Lake	844	167	12,078	25,901
ALGONQUIN PARK				
Algonquin	765,345	1,385	73,029	206,684
Driftwood	265	77	4,612	9,361

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
PEMBROKE				
Bonnechere	113	113	5,348	18,181
Carson Lake	13	43	2,997	5,589
Total, 13 Parks	773,610	4,140	211,545	662,351
EASTERN REGION				
CARLETON PLACE				
Fitzroy	185	248	14,378	29,361
Murphys Point	1,240	176	10,588	25,289
Rideau River	98	185	10,869	23,103
Silver Lake	43	151	8,429	21,861
CORNWALL				
Carillon	1,417	416	17,629	39,227
South Nation	5	—	—	—
BROCKVILLE				
Charleston Lake	902	242	13,828	44,783
TWEED				
Bon Echo	6,644	500	27,758	94,556
Sharbot Lake	69	190	8,639	23,682
NAPANEE				
Ferris	198	163	4,165	7,968
Lake on the Mountain	104	—	—	—
North Beach	89	—	—	—
Outlet Beach, Sandbanks	1,002	433	30,654	109,286
Presqu'ile	937	394	759	78,735
Frontenac	5,130	—	—	—
Total, 16 Parks	18,063	3,098	178,696	497,851
CENTRAL REGION				
LINDSAY				
Balsam Lake	449	483	26,194	78,608
Darlington	209	357	28,730	63,547
Emily	83	299	16,361	48,519
Mark S. Burnham	39	—	—	—
Serpent Mounds	56	113	11,706	32,509
HURONIA				
Awenda	1,792	150	12,870	34,045
Bass Lake	39	92	10,892	23,892
Devil's Glen	6	45	3,300	4,919
Earl Rowe	312	555	28,622	71,288
Mara	45	106	6,560	17,722
McRae Point	138	203	12,251	32,498
Six Mile Lake	94	192	22,546	45,447
Springwater	47	—	—	—
Wasaga Beach	1,545	—	—	—
MAPLE				
Sibbald Point	226	648	45,972	100,374
CAMBRIDGE				
Bronte Creek	640	—	—	—
NIAGARA				
Rock Point	98	126	9,167	20,281
Total, 17 Parks	5,818	3,369	235,171	573,649

Region, District Provincial Park	Area in Hectares	Developed Campsites	Camper	Camper Nights
SOUTHWESTERN REGION				
SIMCOE				
Long Point	141	265	22,580	75,668
Selkirk	73	145	6,594	19,321
Turkey Point	350	195	11,815	29,222
AYLMER				
Iroquois Beach	227	232	14,805	46,045
John E. Pearce	68	—	—	—
Port Bruce	5	—	—	—
CHATHAM				
Holiday Beach	92	46	4,168	9,259
Ipperwash	56	263	18,612	69,866
Peche Island	153	—	—	—
Pinery	2,542	1,085	80,973	263,063
Rondeau	4,816	226	18,172	54,233
Wheatley	241	210	14,447	34,945
WINGHAM				
Point Farms	308	199	15,145	36,895
OWEN SOUND				
Craigleith	66	172	18,559	39,638
Cyprus Lake	669	242	23,749	55,870
Fathom Five	9,977	—	—	—
Inverhuron	289	—	—	—
MacGregor Point	1,001	360	15,639	41,895
Sauble Falls	20	152	12,877	34,086
Total, 19 Parks	21,094	3,792	278,135	810,006
WATERWAY PARKS				
Chapleau-Nemegosenda	8,159	(Chapleau)	.....	.....
Lady Evelyn	2,464	(Temagami)	.....	.....
Mattawa	3,258	(North Bay)	.....	.....
Mississagi	19,814	(Blind River, Espanola, Chapleau)	.....	.....
Winisk	174,000	(Geraldton)	.....	.....
Total, 5 Parks	207,695	.....	.....	.....
NATURE RESERVE PARKS				
Cavern Lake	189	(Thunder Bay)	.....	.....
East Sister Island	53	(Chatham)	.....	.....
Gibson River	168	(Huronia)	.....	.....
Limestone Island	450	(Parry Sound)	.....	.....
Matawatchan	65	(Pembroke)	.....	.....
Montreal River	44	(Sault Ste. Marie)	.....	.....
Ojibway Prairie	65	(Chatham)	.....	.....
Ouimet Canyon	777	(Thunder Bay)	.....	.....
Peter's Woods	34	(Lindsay)	.....	.....
Shreiber Channel	13	(Thunder Bay)	.....	.....
Porphyry Island	107	(Thunder Bay)	.....	.....
Trillium Woods	10	(Aylmer)	.....	.....
Waubashene Beaches	34	(Huronia)	.....	.....
Total, 13 Parks	2,009	.....	.....	.....
TOTAL, 133 Parks	4,258,632	20,393	1,267,974	3,287,603

97 PROVINCIAL PARK RESERVE AREAS IN 1982

Region, District Reserve Area	Area in Hectares
NORTHWESTERN REGION	
RED LAKE	
Berens Dowling	30,845
Lund Lake	2,851
Stout Lake	218,192
Telescope Lake	5,962
Woodland Caribou	360,806
KENORA	
Pipestone Peninsula	1,429
Pistol Lake	1,629
FORT FRANCES	
Pow-Wow Grounds	700
Sand Point Island	889
Total, 9 Areas	623,303
NORTH CENTRAL REGION	
ATIKOKAN	
White Otter Lake	24,281
THUNDER BAY	
Arrow Lake	40
Arrow Lake	*405
Arrowhead Peninsula	344
Inwood	405
Kashabowie	2,064
La Verendrye W. R.	1,311
Middle Falls	961
Silver Falls	3,561
NIPIGON	
Cypress River	240
Gravel River	324
Humboldt Bay	29,542
Kopka Lake	4,047
Partridge Lake	2,631
GERALDTON	
Esnagami Lake	23,472
Lukinto Lake	911
Purgatory Chutes	40
TERRACE BAY	
Slate Island	3,963
Total, 18 Areas	98,542
NORTHERN REGION	
HEARST	
Nagagami Lake	1,481
KAPUSKASING	
Missinaibi W. R.	38,046

* Provincial park not in operation

Region, District Reserve Area	Area in Hectares
COCHRANE	
Long Point Peninsula	2 552
Otter Rapids	197
Pierre Montreuil	17 032
TIMMINS	
Dana-Jowsey Lakes	2 547
KIRKLAND LAKE	
McCann	259
GOGAMA	
La Motte Lake	506
CHAPLEAU	
Missinaibi Lake	1 481
The Shoals	6 227
MOOSONEE	
Kwataboahenan River	94
Total, 11 Areas	70 422
NORTHEASTERN REGION	
WAWA	
Kakakiwibik	23 829
Pothole	352
SAULT STE. MARIE	
Marks Bay	104
BLIND RIVER	
Aubrey Falls	6 880
Mississagi	39 255
ESPANOLA	
La Cloche	4 969
Misery Bay	697
SUDBURY	
Mashkinonje	*940
Wanapitae Lake	2 790
TEMAGAMI	
W. B. Greenwood	9 308
NORTH BAY	
Restoule	467
South Bay	1 604
Total, 12 Areas	91 195
ALGONQUIN REGION	
BRACEBRIDGE	
Bigwind Lake	1 878
Chetwynd	85
Hardy Lake	602
Ragged Falls	139
MINDEN	
Red Pine Lake	3 173
BANCROFT	
Kawartha Highlands	1 587
McKenzie Lake	1 539

* Provincial park not in operation

Region, District Reserve Area	Area in Hectares
PEMBROKE	
Centennial Lake	3,833
Madawaska River	1,233
Round Lake	124
PARRY SOUND	
Blackstone Harbour	12,086
Magnetawan W R	9,256
McDonald Bay	578
O'Donnell Point	786
Round Lake	11,241
Shawanaga Basin	1,287
Total 16 Areas	49,427
EASTERN REGION	
BROCKVILLE	
Blue Mountain	726
CARLETON PLACE	
Kilmarnock	26
Mouth of Tay	64
TWEED	
Baudner Property	35
NAPANEE	
Casey Point	33
Total 5 Areas	884
CENTRAL REGION	
HURONIA	
Bass Lake	185
Boyne Valley (Primrose)	1,073
Couchiching	44
Devil's Glen	55
Giant's Tomb	479
Lavender Falls	202
Matchedash	2,509
Mono Cliffs	618
Nottawasaga Lookout	219
Scott's Falls	484
MAPLE	
Credit Forks	205
Duclos Point	137
CAMBRIDGE	
Cranberry Bog	9

Region, District Reserve Area	Area in Hectares
LINDSAY	
Harris Island	75
Indian Point	857
Kendal Recreation Area	349
Quackenbush Site	39
Scugog Island	168
Wolf Island	330
NIAGARA	
James N. Allen	113
Short Hills	617
Total, 21 Areas	8,767
SOUTHWESTERN REGION	
AYLMER	
Kamoka	501
CHATHAM	
Fish Point	110
Lighthouse Point	97
OWEN SOUND	
Black Creek	285
Cyprus Lake	287
Hope Bay	517
Total, 6 Areas	1,797
TOTAL, 97 Areas	944,337

*37 PROVINCIAL PARK SPECIAL AREAS IN 1982

Region, District Special Area	Area in Hectares
NORTH CENTRAL REGION	
ATIKOKAN	
Warner Lake	302
NIPIGON	
Gravel Bay	101
TERRACE BAY	
Steel River	1,093
Total, 3 Areas	1,496
NORTHERN REGION	
HEARST	
Rogers	611
Total, 1 Area	611
ALGONQUIN REGION	
MINDEN	
Buckhorn	385
Gull River	27
PARRY SOUND	
C.N.R. Line	269
Franklin Islands	7
Total, 4 Areas	688
EASTERN REGION	
CORNWALL	
Cornwall Recreation Area	83
Total, 1 Area	83
CENTRAL REGION	
HURONIA	
Allandale	80
Gloucester Pool	36
Minesing Swamp	450
MAPLE	
Cheltenham Property	100
Grange Property	142
CAMBRIDGE	
Burlington Parkway Property	26
Yaremko-Ridley	64
Total, 7 Areas	898

Region, District Special Area	Area in Hectares
SOUTHWESTERN REGION	
AYLMER	
East-Zorra Trail	24
CHATHAM	
Fox Property	7
Temblay Beach	62
WINGHAM	
Stinsin Estate	48
OWEN SOUND	
Beaver Valley Lowlands	540
Beaver Valley Ski Area	297
Cape Chin	437
Colpoys Bay	213
Dorcas Bay	68
Dunks Bay	16
Dyers Bay	79
Eugenia Lake	4
Hoggs Falls	82
Johnston Harbour	3,157
Kolapore Uplands	1,945
Lion's Head Lookout	1
Lion's Head Recreation Area	494
Meaford Lookout	404
Pretty River Valley	879
Spring Creek	2,104
Umbrella Lake	3,530
Total, 21 Areas	14,391
TOTAL, 37 Areas	18,167

* Any area acquired by MNR for recreational or other purposes but not intended for designation as a provincial park

FISHERIES BRANCH

Room W-2354, Main Office Telephone (416) 965-7883

Branch Director	A S Holder	W-2347	5947
Client Services Section	J A Haxell, Mgr	W-2349	7885
Co-ordinator, Policy Development	F P Maher	W-2346	7885
Co-ordinator, Public Involvement	C I Goddard	W-2350	7885
Extension Specialist	A A Wainio	W-2353	7885
Data Systems Biologist	W G Simpson	W-2446	7885
Economist	N Bedi	W-2344	7885
Commercial Development Co-ordinator	J C Tilt	W-2455	7885
SPOF Policy & Implementation Co-ord	J A Cherry	W-2345	7885
Fish Culture Section	J M Byrne Spvr	W-2451	7886
Production Biologist	J H Hynes	W-2449	7886
Fish Health Biologist	A Sippel	W-2453	7886
Fish Nutrition Specialist	C Y Cho	(519) 824-4120	2212
Fish Requirements Biologist	B Potter	W-2450	7886
Fish Culture Operation Co-ordinator	C C Mack	W-2452	7886
Fish Culture Systems Specialist	D Farquhar	W-2454	7886
Engineer	H Yoshida	W-2448	7886
Environmental Dynamics Section	D P Dodge, Spvr	W-2312	7887
Habitat Enhancement Biologist	R M Biette	W-2312	7887
Habitat Protection Biologist	J T Allin	W-2312	7887
Aquatic Habitat Inventory Biologist	G A Goodchild	W-2312	7887
Inventory Data Systems & Lab Spec	G E Gale	W-2312	7887
Aquatic Habitat Acidification Spec	G L Beggs	W-2442	7887

Box 50, Maple, Ontario L0J 1E0 Telephone (416) 832-2761

Fisheries Research Section	A H Lawrie, Spvr	Ext. 251
Age/Growth Studies & Envir. Stress	J Casselman	251
Brook Trout Studies	J H Fraser	251
Community Dynamics	D O Evans	251
Limnology	A M McCombie	251
Stocks Assessment & Genetics	P Ihssen	251
Harkness Memorial Lab (winter)	J A MacLean	251
Harkness Memorial Lab (summer)	J A MacLean	(705) 637-2103
Systems Ecology	B Shuter	251

RESEARCH STATIONS

Fisheries Research Section	R A Ryder	(807)	683-6232
Box 5000, Thunder Bay, Ont. P7C 5G6	P J Colby		475-1635
Sault Ste. Marie Research Station	W H Kwain	(705)	942-1411
875 Queen St. E., S.S. Marie, Ont. P6A 2B3			
South Baymouth Fisheries Laboratory	B Henderson	(705)	859-3137
R.R. 1, Tehkummah, Ont. P0P 2C0	J A Reckahn		3137
Wheatley Fisheries Research Station	S J Nepszy	(519)	825-4171
R.R. 2, Wheatley, Ont. Ont. N0P 2P0	J H Leach		4171
Glenora Fisheries Research Station	W J Christie	(613)	476-2400
R.R. 4, Picton, Ont. K0K 2T0	D A Hurley		2400
Harkness Lab (Algonquin Park)	Dr. J A MacLean	(705)	637-2103
Box 110, Whitney, Ont. K0J 2M0			

FISH PLANTINGS Numbers in 000s of Fish (F) and Eggs (E)

Stocked from Ontario Fish Culture Stations

Species	E.F	1978	1979	1980	1981	1982
Coho Salmon	F	201	286	418	224	144
Chinook Salmon	F	393	147	18	12	270
Rainbow Trout	F	1,057	1,099	1,347	395	369
Brown Trout	F	—	—	—	—	71
Brook Trout	E	380	18	—	860	—
	F	1,078	682	1,260	1,459	824
Lake Trout	E	120	6	5	—	—
	F	1,536	1,478	1,928	2,636	2,517
Splake	E	377	—	76	—	—
	F	185	800	798	684	927
Aurora Trout	F	38	21	17	30	—
Whitefish	F	—	—	—	—	13
Muskellunge	F	1,271	1,490	1,120	791	1,146
Smallmouth Bass	F	185	78	65	160	—
Largemouth Bass	F	112	—	—	—	—
Walleye	E	—	13,450	—	—	—
	F	8	10	472	29	31
Total		6,946	19,567	7,523	7,250	6,312

COMMERCIAL FISHING LICENCES

Year	Food-Fish Harvesting	Bait-Fish Harvesting	Bait-Fish Dealers	Bait-Fish Preservers	Total
1978	1,048	1,679	1,832	99	4,658
1979	1,093	1,549	1,791	114	4,547
1980	1,029	1,728	1,858	124	4,739
1981	1,047	1,712	1,861	149	4,762
1982	1,068	1,694	1,847	134	4,743

ANGLING LICENCES

Year	Number Sold to Non-Residents
1978	654,672
1979	673,925
1980	628,988
1981	673,334
1982	661,934

FISH STOCKING

from Ontario Provincial Fish Culture Stations
For the fiscal year ending March 31, 1983

(E-Eggs)

Station	Species	Quantity	Weight (kg)
Codrington	Brown Trout	71,150	887
	Brook Trout	14,054	2,373
Chatsworth	Lake Trout	119,807	2,216
	Splake	773,712	29,076
	Whitefish	13,222	635
Deer lake	Rainbow Trout	33	1
	Brook Trout	35,174	378
	Lake Trout	191,155	3,771
	Muskellunge	1,145,710	73
Dorion	Brook Trout	338,742	3,154
	Lake Trout	949,773	22,059
Hill's Lake	Brook Trout	25,000	14
Normandale	Rainbow Trout	166,366	12,986
North Bay	Brook Trout	151,892	1,816
	Lake Trout	143,538	3,134
Pembroke	Brook Trout	160,400	1,622
	Lake Trout	171,050	2,688
Ringwood	Coho Salmon	141,868	3,819
	Chinook Salmon	269,886	741
Sandfield	Brook Trout	110	50
	Lake Trout	58,310	757
	Splake	153,580	3,410
Skeleton Lake	Rainbow Trout	129,800	2,938
	Lake Trout	82,700	940
Tarentorus	Coho Salmon	2,090	64
	Rainbow Trout	33,880	1,360
	Brook Trout	64,348	458
	Lake Trout	506,421	6,503
White Lake	Rainbow Trout	12,400	319
	Brook Trout	34,250	245
	Lake Trout	237,866	2,653
	Walleye	30,527	77
Westport	Rainbow Trout	26,206	1,372
	Lake Trout	56,824	860

EMPLOYMENT AND INVESTMENT IN COMMERCIAL FISHERY — 1982

Classification	Lake	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron
EMPLOYEES	Number	294	824	23	148
FISHING BOATS					
12.2 m and over	Number	3	148	—	25
(40' and over)	kg	47,112	3,707,352	—	549,036
	Value $	228,000	20,079,099	—	2,211,716
6.1 m to 11.9 m	Number	72	35	9	11
	Value $	872,200	442,250	90,000	243,000
Under 6.1 m	Number	185	58	8	10
	Value $	318,937	71,245	13,550	7,350
FISHING GEAR					
Gill Nets	Metres	1,113,858	7,827,187	—	1,247,670
	Value $	817,433	5,909,830	—	889,460
Pound Nets	Number	—	24	195	—
	Value $	—	59,000	181,000	—
Trap Nets	Number	91	170	143	128
	Value $	158,700	335,000	101,000	232,141
Hoop Nets	Number	969	164	50	3
	Value $	383,785	64,750	15,000	3,600
Seine Nets	Metres	2,366	3,675	1,305	—
	Value $	23,550	57,100	13,400	—
Night Lines	Number	37,520	6,100	6,300	500
	Value $	22,481	4,900	5,030	300
Dip Nets	Number	22	17	—	1
	Value $	243	210	—	98
Trawl Nets	Number	—	297	—	4
	Value $	—	625,785	—	10,000
Trammel Nets	Metres	—	841	—	—
	Value $	—	2,800	—	—
SHORE INSTALLATIONS					
Freezers & Icehouses	Number	42	34	7	26
	Value $	310,686	2,190,910	76,000	539,800
Piers & Wharves	Number	38	44	9	9
	Value $	146,730	324,150	33,200	52,950
Net Sheds	Number	107	130	15	28
	Value $	392,525	2,987,182	183,000	560,600
Miscellaneous	Value $	13,550	1,100	—	—
NEW CAPITAL INVESTMENT					
Engines	Value $	79,972	304,362	600	18,300
Hulls	Value $	139,900	726,400	400	45,000
Fishing Gear	Value $	167,000	958,781	1,470	106,850
Wheelhouse Equip	Value $	7,490	262,845	750	34,500
Other Equipment	Value $	1,448	5,900	227	—
TOTAL NEW CAPITAL		$ 395,810	$ 2,258,288	$ 3,447	$ 204,650
TOTAL INVESTMENT		$4,084,630	$35,413,599	$714,627	$4,955,665

Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
115	62	173	422	45	2,106
20	11	20	11	—	238
285,390	182,106	385,956	181,200	—	5,338,152
774,200	508,000	1,368,000	460,500	—	25,629,515
26	10	33	71	5	272
240,900	23,500	364,200	492,714	25,800	2,794,564
47	20	52	302	26	708
67,600	22,725	89,750	485,539	33,340	1,110,036
830,700	293,967	842,227	562,547	17,280	12,735,436
611,700	201,825	579,808	462,987	11,560	9,484,603
15	6	12	17	—	269
18,900	7,500	18,100	11,000	—	295,500
6	18	8	147	21	732
7,500	31,800	17,600	157,658	19,600	1,060,999
1	—	2	95	220	1,504
800	—	3,000	25,025	65,900	561,860
—	—	—	180	252	7,778
—	—	—	560	800	95,410
—	—	—	—	3,900	54,320
—	—	—	—	2,430	35,141
6	1	3	27	3	80
42	30	45	470	35	1,173
—	—	13	—	—	314
—	—	24,300	—	—	660,085
—	—	—	—	366	1,207
—	—	—	—	1,650	4,450
38	20	38	108	9	322
225,150	203,700	1,552,950	635,246	1,700	5,736,142
34	10	48	50	5	277
172,250	33,033	181,800	365,445	16,900	1,326,458
33	19	62	82	6	482
168,050	117,076	230,900	176,535	4,050	4,819,918
—	—	—	57,075	2,320	74,045
25,225	36,925	35,397	60,187	5,850	566,818
28,750	68,100	111,800	45,497	2,895	1,168,742
74,645	75,307	59,635	82,588	6,893	1,533,169
21,917	1,094	15,860	10,711	—	355,167
—	—	10,972	12,800	—	31,347
$ 150,537	$ 181,426	$ 233,664	$ 211,783	$ 15,638	$ 3,655,243
$2,437,629	$1,330,615	$4,664,117	$3,542,537	$201,723	$57,345,142

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest January to December 1982 (shown in kilograms and dollar value)

Species	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
Bowfin	75	10,440	2,232	—	108
Bullhead	108,569	22,185	1,397	9	291
Burbot (Ling)	—	—	—	1,404	4,429
Carp	13,119	19,444	74,426	12,717	1,283
Catfish	11,686	31,508	28,148	17,757	215
Chub (Deepwater Cisco)	—	—	—	193,739	56,762
Crappie	7,996	5,406	152	—	—
Eel	29,095	20	—	2	—
Lake Herring	2,173	—	—	3,670	11,593
Lake Trout	39	1,557	—	17,630	549
Lake Whitefish	10,021	12,030	104	701,871	77,246
Freshwater Drum	3,020	189,550	17,402	19,545	—
Northern Pike	8,341	23,940	1,411	414	1,929
Pacific Salmon	63	16,475	—	4,721	104
Rock Bass	5,646	238	1,458	182	183
Round Whitefish	142	—	—	4,167	9,080
Sauger	3	90	—	—	108
Shad	109	1,688	264	1,459	—
Smelt	36,747	19,555,814	—	74	124
Splake	—	6	—	222	37,768
Sturgeon	267	472	19	1,594	231
Sucker	11,975	6,769	14,737	62,739	19,513
Sunfish	69,170	26,428	—	—	—
White Bass	7,108	1,556,102	7,965	5,702	—
White Perch	33,863	4,206	89	—	—
Yellow Perch	538,767	4,133,908	1,465	135,363	38,797
Yellow Pickerel	1,561	909,397	286	116,534	8,719
Animal Food	39,138	448,280	1,301	22,855	290
Total Landings (kg)	938,693	26,988,953	152,856	1,324,370	269,322
Total Value ($)	$1,904,711	$26,183,419	$76,526	$2,832,535	$504,117

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest January to December 1982 (shown in kilograms and dollar value)

North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings (kg)	Total Value ($)
—	—	—	379	13,234	4,080
9	—	14,049	56,991	203,500	212,989
1,319	2,773	69,778	1,043	80,746	3,595
2,844	—	—	34,439	158,272	58,844
88	—	—	6,148	95,550	98,675
16	17,779	40,049	—	308,345	516,123
—	—	—	9,297	22,851	47,770
—	—	—	2,468	31,585	39,458
4,029	901,020	199,545	4	1,122,034	877,444
1,348	188,748	47,957	5	257,833	607,396
170,589	164,210	628,941	16	1,765,028	3,303,613
—	—	191	707	230,415	33,963
8,598	1,517	276,166	22	321,338	375,471
1,036	3,973	—	320	26,692	51,642
394	—	11,968	1,555	34,624	61,386
716	20,978	—	—	35,083	26,729
22	—	27,469	—	27,692	43,467
—	—	—	34	3,554	491
—	17,277	—	959	19,610,995	5,640,983
2,282	—	—	—	40,278	110,410
2,208	765	12,655	1,461	19,672	107,144
27,354	123,522	340,858	18,581	626,048	150,261
—	—	—	34,105	129,703	126,124
—	—	861	852	1,578,590	2,085,343
—	—	—	1,086	39,244	25,607
39,153	60,484	4,333	10,184	4,962,454	18,086,913
20,235	662	311,013	2	1,368,409	4,078,508
40,149	11,028	105,915	16,353	685,309	14,016
322,389	1,514,736	2,090,748	197,011	33,799,078	
$617,647	$2,062,524	$2,425,600	$181,266		$36,788,345

ONTARIO COMMERCIAL FISH HARVEST by species in 000s kg and $000s

Species	1978	1979	1980	1981	1982	1982 Value
Bowfin	16	14	9	20	13	4
Bullhead	222	236	241	234	204	213
Burbot (Ling)	173	129	108	182	81	4
Carp	113	180	121	208	158	59
Catfish	86	96	85	117	96	99
Chub (Deepwater Cisco)	558	498	446	394	308	516
Pacific Salmon	3	21	17	38	27	52
Eel	232	226	168	112	32	39
Freshwater Drum	166	164	179	257	230	34
Goldeye						
Lake Herring (Cisco)	929	990	1 464	1 456	1 122	877
Lake Trout	165	165	278	227	258	607
Lake Whitefish	1 692	1 289	1 681	1 748	1 765	3 304
Northern Pike	344	312	267	296	321	375
Rock Bass & Crappie	80	99	75	64	58	109
Round Whitefish	40	46	75	57	35	27
Sauger	13	16	17	20	28	43
Smelt	12 300	10 892	11 336	13 944	19 611	5 641
Splake	12	9	39	57	40	110
Sturgeon	13	15	21	20	20	107
Sucker (Mullet)	536	630	563	606	626	150
Sunfish	106	127	118	126	130	126
White Bass	756	763	904	896	1 579	2 085
White Perch	229	49	57	47	39	26
Yellow Perch	4 505	5 873	6 236	4 784	4 962	18 087
Yellow Pickerel	846	1 046	1 343	1 476	1 368	4 079
Animal Food	1 076	1 010	637	772	688	15
Total Landings	25 211	24 895	26 485	28 158	33 799	
Total Landed Value	$17 161	$25 874	$23 644	$31 767		$36 788

ONTARIO COMMERCIAL FISH HARVEST by waters in 000s kg and $000s

Year	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay	North Channel	Lake Superior	Northern Inland	Southern Inland	Total	Total $
1978	1,112	18,072		1,179	349	172	1,834	2,352	140	25,210	17,181
1979	878	18,473		858	331	210	1,621	2,217	307	24,895	25,874
1980	891	19,490	37	1,083	36	158	2,151	2,080	234	26,485	23,644
1981	1,163	20,334	93	1,461	346	314	2,060	2,154	233	28,158	31,767
1982	939	26,989	153	1,324	269	322	1,515	2,091	197	33,799	36,788

LAKE ONTARIO COMMERCIAL FISH HARVEST by species in 000s kg and $000s

Year	Bullhead and Catfish	Carp	Eel	Lake Herring	Smelt	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total $
1978	164	9	229	6	27	67	226	318	66	1,112	1,138
1979	163	4	222	13	26	70	46	253	81	878	1,478
1980	176		164	5	22	72	55	265	132	891	1,147
1981	154	73	109	2	34	60	48	563	120	1,163	1,930
1982	120	13	29	2	37	69	34	539	96	939	1,905

LAKE ERIE COMMERCIAL FISH HARVEST by species in 000s kg and $000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Smelt	White Bass	Yellow Perch	Yellow Pickerel	Other Species	Total	Total $
1978	64	29	158	11,974	742	3,963	265	877	18,072	9,884
1979	54	15	122	10,831	756	5,423	538	734	18,473	17,592
1980	56	10	151	11,296	888	5,674	800	615	19,490	14,024
1981	76	15	212	13,790	881	3,795	956	609	20,334	20,261
1982	54	19	190	19,556	1,556	4,134	909	571	26,989	26,183

LAKE ST. CLAIR COMMERCIAL FISH HARVEST by species in 000s kg and $000s

Year	Bullhead and Catfish		Freshwater Drum	Northern Pike	Rock Bass & Crappie	Sucker	White Bass	Yellow Perch	Other Species	Total	Total $
1978											
1979											
1980	7	14	5	1	5	5	2		2	37	23
1981	22	34	11	1	1	11	5	1	7	93	53
1982	30	74	17	1	2	15	8	1	5	153	77

LAKE HURON COMMERCIAL FISH HARVEST by species in 000s kg and $000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish	Sucker (Bullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total $
1978	15	70	4	641	9	49	124	77	190	1.179	1.960
1979	17	67	3	375	5	30	49	95	217	858	1.730
1980	15	101	3	524	6	18	201	124	91	1.083	2.369
1981	14	219	3	594	4	49	246	124	208	1.461	3.255
1982	13	194	4	702	4	63	135	117	92	1.324	2.833

GEORGIAN BAY COMMERCIAL FISH HARVEST by species 000s kg and $000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish	Sucker (Bullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total $
1978	6	151	16	71	13	19	35	23	15	349	520
1979	4	122	21	74	19	13	45	17	16	331	641
1980	7	77	20	88	15	41	36	11	66	361	505
1981	2	57	12	105	8	28	49	11	74	346	669
1982	2	57	12	77	9	20	39	9	44	269	504

NORTH CHANNEL COMMERCIAL FISH HARVEST by species 000s kg and $000s

Year	Smelt	Lake Whitefish	Northern Pike	Round Whitefish	Sturgeon	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total $
1978	...	88	5	3	2	23	13	6	32	172	196
1979	...	63	9	3	2	36	29	20	48	210	280
1980	...	73	6	1	4	34	7	13	20	158	279
1981	...	120	13	2	3	26	52	20	78	314	526
1982	...	171	9	1	2	27	39	20	53	322	618

LAKE SUPERIOR COMMERCIAL FISH HARVEST by species 000s kg and $000s

Year	Chub	Lake Herring	Lake Trout	Lake Whitefish	Smelt	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total $
1978	294	854	128	151	294	42	41		30	1,834	1,307
1979	271	887	111	159	34	75	47		37	1,621	1,723
1980	240	1,282	212	225	17	77	38		60	2,151	2,606
1981	91	1,327	176	173	42	110	61		80	2,060	2,246
1982	18	901	189	164	17	124	61	1	40	1,515	2,063

NORTHERN INLAND WATERS COMMERCIAL FISH HARVEST by species 000s kg and $000s

Year	Burbot	Chub	Lake Herring	Lake Trout	Lake Whitefish	Northern Pike	Sucker (Mullet)	Yellow Pickerel	Other Species	Total	Total $
1978	164	43	46	20	737	298	385	467	192	2,352	2,053
1979	122	38	63	34	616	266	446	353	279	2,217	2,228
1980	91	27	154	32	765	226	337	337	111	2,080	2,533
1981	169	26	106	18	745	246	358	363	123	2,154	2,641
1982	70	40	200	48	629	275	341	311	177	2,091	2,426

SOUTHERN INLAND WATERS COMMERCIAL FISH HARVEST by species 000s kg and $000s

Year	Buffalo and Suckers	Carp	Lake Whitefish	Rock Bass & Crappie	Sucker (Redhorse)	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total $
1978	41	58		4	1	15	3	6	12	140	103
1979	58	138		11	9	31	3	18	39	307	203
1980	57	71		4	15	29	2	11	45	234	157
1981	63	69		8	4	34	3	15	37	233	186
1982	63	34		11	19	34	1	10	25	197	181

EMPLOYMENT AND INVESTMENT IN ONTARIO COMMERCIAL FISHERY

Year	Employees	Boats 12.2 m & Over	Boats Under 12.2 m	Gill Nets	Pound Nets	Trap Nets	Hoop Nets	Seine Nets	Freezers and Ice Houses	Wharves and Piers	Net Sheds	New Investment $000s	Total Value $000s
1978	2 231	206	1 017	11 145	141	473	2 459	73	329	262	447	2 446	27 056
1979	1 997	212	913	10 869	80	476	1 497	62	309	263	451	2 834	33 950
1980	1 964	213	837	12 068	172	556	1 630	75	317	250	457	3 714	41 481
1981	2 043	237	885	12 616	160	689	1 420	77	291	275	476	5 447	54 676
1982	2 106	238	980	12 735	269	732	1 504	78	322	277	482	3 655	57 345

LANDS AND WATERS GROUP

Room W-6626, Main Office Telephone (416) 965-6045

Executive Co-ordinator	H. A. Clarke	W-6626	6046
Executive Asst	Ms. H. Cobden	W-6623	1075
Res. Economist	Dr. P.L.M. Warwick	W-6625	5067

LAND MANAGEMENT BRANCH

Room W-6640, Main Office Telephone (416) 965-1316

Branch Director	E. F. Anderson	W-6643	1316
Secretary	Mrs. B. Bourne	W-6643	1316
Land Acquisition Officer	J. Paige	W-6644	1316
Public Lands Section	J. Morton, Spvr.	W-6603	2741
Public Lands Management	L. Fleguel	W-6621	4567
Disposition	W. P. Small	W-6621	2743
Land Appraisals Officer	J. Hogan	W-6629	2742
Property Management Officer	L. Hall	W-6621	2744
Land Management Planning	N. C. Gordon	W-6604	2742
Mining Lands Section	J. C. Smith, Spvr.	W-6602	1380
Mining Lands Administrator	F. W. Matthews	W-6610	6918
Titles Section	W.L. Good	W-6645	1319
Document Officer	C. D. Egerton	W-6645	1319
Acreage Tax Administrator	Mrs. D. Holland	W-6645	1319
Records Officer	R. E. Dixon	W-6645	1319
Land Records Manager	J.C. Sherman	W-6645	1319
Resource Access Section	J. M. Small, Spvr.	W-6642	5735

PUBLIC LAND (in years ending March 31)

Year	Patents		Leases		Licences of Occupation	
	No.	ha	No.	ha	No.	ha
1979	126	523	63	99	79	3 580
1980	578	1 216	201	198	135	3 407
1981	890	1 093	162	276	100	3 066
1982	690	2 385	211	448	113	845
1983	1 093	1 517	114	208	96	472

LANDS ACQUIRED BY CROWN (in years ending March 31)

Year	Provincial Tax Forfeitures ha	Cancellation of Sales ha	Purchased or Otherwise Acquired ha	Acreage Tax Total ha	Forfeitures ha
1979		0 4	2 075	2 076	22 663
1980	0 4		2 480	1	15 783
1981	1 20	0 16	703	1 36	3 600
1982	492		722		6 275
1983	661				4 047

USE OF ACQUIRED LANDS (Areas in hectares. Years ending March 31)

Year	Provincial Parks ha.	Lands Exempt ha.	Sport Fisheries ha.	Wildlife Mgmt. ha.	Timber Mgmt ha.	Total ha.	Interim Property Mgmt.
1975	4 815	87	0 80	384		5 286	
1976	2 143	12	6	163		2 325	
1977	630	140	81	248	2	1 101	35 424
1978	548	4 04		111	4 332	4 995	36 095
1979	2 028	79			3	2 110	34 715
1980	2 350	109	16		5	2 480	35 008
1981	549		51	3	100	703	34 692
1982	588	32	47	24	31	722	26 633
1983(82/83)	261	56	146	213	726	1 402	25 113

MINING LANDS in years ending March 31

Year	Placer No.	Placer ha	Dredge No.	Dredge ha	Lease River No.	Lease River ha
1979			137	2 049	53	3 923
1980			185	5 327	94	11 185
1981			141	2 302	60	7 704
1982			77	1 226	68	6 446
1983			85	1 937	80	9 230

Year	Surface Rights No.	Surface Rights ha	Licences of Occupation No.	Licences of Occupation ha	Quit Claim Deeds and Reports No.	Quit Claim Deeds and Reports ha
1979	1	37	2	27 694	142	3 764
1980	2	90	1	16	297	7 538
1981			5	147 191	38	624
1982			3	366 705	49	1 157
1983			1	864	45	1 196

PROSPECTING ACTIVITIES in years ending March 31

Year	Mining Claims Recorded	Mining Claims Converted	Mining Claims In Good Standing	Assessment Work (Days)	Survey Permits Issued	Mineral Licences Issued	Mineral Licences Renewed
1979	13 041	16 444	37 669	752 155	1 178	991	1 723
1980	16 875	10 952	36 092	437 619	1 301	1 347	1 854
1981	36 535	11 279	72 809	972 469	1 188	2 130	2 660
1982	26 075	17 709	76 125	1 565 197	1 520	1 871	2 796
1983	55 942	24 395	113 167	1 516 226	1 449	2 040	3 190

1982/83 MNR CAPITAL ROADS PROGRAM

REGION	No. of kms Con. Recon.	No. of Bridges Constructed	Expenditures ($000s)	No. of kms Maintained	Expenditures ($000s)
NORTHERN ONTARIO					
Northwestern	17 8	–	268 3	839 0	337 9
North Central	38 6	6	972 7	1 585 7	811 3
Northern	171 6	–	1 031 3	1 345 8	642 9
Northeastern	77 0	1	603 2	1 984 1	533 6
Sub Totals	305 0	7	2 875 5	5 754 6	2 325 7
SOUTHERN ONTARIO					
Algonquin	3 4	–	10 5	1 007 7	410 2
Eastern	22 8	–	141 1	610 6	175 8
Central	4 3	–	10 5	183 6	80 9
Southwestern	–	–	–	189 9	57 7
Sub Totals	30 5	–	162 1	1 991 8	724 6
PROVINCIAL TOTALS	335 5	7	3 037 6	7 746 4	3 050 3

Program includes Recreational access, forest access, cottage access, ministry service, public transport, agreement forest, private forest road maintenance agreements and fuelwood access roads.

1982/83 NORTHERN ONTARIO RESOURCES TRANSPORTATION COMMITTEE - DIRECT PROGRAM (MNR)

REGION	No. of kms Con. Recon.	No. of Bridges Constructed	Expenditures ($000s)	No. Of kms Maintained	Expenditures ($000s)	No. of kms Winter Road Maint.	Expenditures ($000s)
Northwestern	19 7	–	2 032 3	155 0	127 0	191 0	78 5
North Central	3 2	1	80 2	57 0	9 0	–	–
Northern	36 1	1	1 208 4	–	–	–	–
Northeastern	–	–	–	22 5	13 1	–	–
TOTAL	59 0	2	$3 320 0	234 5	149 1	191 0	$78 5

1982/83 NORTHERN ONTARIO RESOURCES TRANSPORTATION COMMITTEE - INDIRECT PROGRAM (COMPANY)

Northwestern	–		1	8 4
North Central	3 4		–	54 9
Northern	–		–	–
Northeastern	–		–	–
TOTAL	3 4		1	63 3

1982/83 FOREST MANAGEMENT SUBSIDIARY AGREEMENT PROGRAM*

CROWN PROJECTS REGION	No. of kms Con. Recon.	No. of Bridges	Expenditures ($000s)
Northwestern	53 4	2 0	4 248 0
North Central	67 4	2 5	5 307 2
Northern	17 5	1 0	2 188 5
Northeastern	22 3	1 0	2 739 0
TOTAL	160 6	6 5	$14 482 7

COMPANY PROJECTS REGION	No. of kms Constructed	No. of Bridges	Expenditures ($000s)
Northwestern	—	—	—
North Central	30 1	2	2 993 0
Northern	17 7	—	605 1
Northeastern	1 8	2	647 0
TOTAL	49 6	4	$4 245 1
TOTAL PROGRAM	210 2	10 5	$18 727 8

*F M S A Program is co-funded by the federal and provincial governments

1982/83 FOREST MANAGEMENT AGREEMENT PROGRAM*

(Partially Funded by BILD)

REGION	No. of kms Con. Recon.	Expenditures ($000s)	No. of kms Maintained	Expenditures ($000s)
Northwestern	24 5	315 6	75 8	29 9
North Central	191 4	3 106 1	218 1	11 2
Northern	40 5	3 418 6	191 8	108 5
Northeastern	77 6	1 551 1	35 2	13 8
TOTAL	334 0	8 391 4	520 9	163 4

*F M A Program is funded in accordance with agreements between MNR and forest companies

1982/83 RESOURCE ACCESS PROGRAM SUMMARY
MNR ROAD & BRIDGE CONSTRUCTION & MAINTENACE

Crown	Regular Program	N.O.R.T. Program	F.M.S.A. Program	F.M.A. Program	Totals
Kms of Road Con./Recon.	335.5	59.0	160.6	—	555.1
	7 Bridges	2 Bridges	6.5 Bridges	—	15.5 Bridges
Expenditures	3,037.6	3,320.9	14,482.7	—	20,841.2
Kms of Road Maintained	7,746.4	234.5	—	—	7,980.9
Expenditures	3,050.3	149.1	—	—	3,199.4
Kms of Winter Road Maintained	—	191.0	—	—	191.0
Expenditures	—	78.5	—	—	78.5

ROADS & BRIDGES CONSTRUCTED & MAINTAINED
BY COMPANIES UNDER AGREEMENT

Company	N.O.R.T. Program	F.M.S.A. Program	F.M.A. Program	Totals
Kms of Road Con./Recon.	3.4	49.6	334.0	387.0
	1 Bridge	4 Bridges		5 Bridges
Expenditures	63.3	4,245.1	8,391.4	12,699.8
Kms of Road Maintained	—	—	520.9	520.9
Expenditures	—	—	163.4	163.4

SURVEYS AND MAPPING BRANCH

Room W-6602, Main Office Telephone (416) 965-6225

Surveyor General, Branch Director	J. H. O'Donnell	W-3348	6225
Surveying Services, General Manager	S. B. Panting	W-3446	4538
Surveys Manager	D. E. Norris	W-3449	2714
Asst. Mgr. Examinations	J. E. Hietala	W-3444	2714
Asst. Mgr. Technical Services	J. A. MacIntosh	W-3447	2714
Survey Records Information	D. E. Jeanes	W-3420	1416
Geographical Referencing Manager	J. H. Kerr	W-3422	4538
Mathematical Adjustments, Head	Z. Jiwani	W-3422	4538
Control Survey Analyst	K. M. Kelly	W-3422	4789
Mapping Services, General Manager	C. T. Osborne	W-2545	4941
Cartographic Services	F. W. Dawson	W-2540	4743
Drafting Services Manager	D. W. Robeson	W-2540	1823
Nomenclature Services Manager	M. B. Smart	W-2601	6515
Basic Mapping Manager	B. Jackson	W-2540	1208
Chief Contract Monitor	R. Audas	W-2640	0293

Ontario Centre for Remote Sensing
880 Bay Street, Toronto, Ontario M5S 1Z8

Associate Director	V. Zsilinszky	8411
Chief Scientist	S. Pala	8411
Senior Scientist	A. Boissonneau	8411
Senior Scientist	A. Jano	8411
Staff Scientist	R. Mussakowski	8411
Staff Scientist	T. Ellis	8411
Staff Scientist	Vacant	8411
Research Officer, Engineering	V. Singhroy	8411
Senior Remote Sensing Technician	J. Narraway	8411
Airborne Program Co-ordinator	I. Ross	8411
Airborne Program Specialist	B. Fitzpatrick	8411
Photo Research Lab Supervisor	D. Klimes	8411

MAPPING SERVICES

ONTARIO BASIC MAPPING

1:20000 , 1:10000 scales

Completed.

In progress.

To be mapped.

1:2000 scale

143 Communities completed.
40 Communities in progress.

SURVEYING SERVICES

Area of original township surveys.

Township boundaries resurveyed / restored.

9186 kms completed.

SURVEYING SERVICES

Township Boundary Resurvey Program

Year	Km Resurveyed
1961-62	334.34
1962-63	277.93
1963-64	276.89
1964-65	604.39
1965-66	601.94
1966-67	466.07
1967-68	419.07
1968-69	442.59
1969-70	424.87
1970-71	494.71
1971-72	529.47
1972-73	388.93
1973-74	306.95
1974-75	395.11
1975-76	277.82
1976-77	324.82
1977-78	328.31
1978-79	494.39
1979-80	525.29
1980-81	461.72
1981-82	407.57
1982-83	405.30
Total	9,187.90

CROWN LAND SURVEY PLAN EXAMINATIONS

Year	No. Plans Examined
1978-79	270
1979-80	317
1980-81	323
1981-82	641
1982-83	791

DESCRIPTIONS PREPARED

Year	No. Descriptions Prepared
1978-79	897
1979-80	903
1980-81	779
1981-82	1,052
1982-83	1,585

PROVINCIAL HORIZONTAL CONTROL SURVEY

Data Base COSINE

Year	Stations Loaded
1981-82	10,000
1982-83	13,000
Total	23,000

PRECISE CALIBRATION BASELINE INSTALLATION

Year Installed	Baseline Name
1977-78	Mississauga
1979-80	Scarborough
1980-81	Burlington
1981-82	London
1982-83	Belleville

OFFICE OF INDIAN RESOURCE POLICY

Room 6625 Whitney Block Telephone (416) 965-6045

Director	E G Wilson	W-6625	6045
Secretary	C A Ritchie	W-6623	6045
Indian Resource Policy Adviser	P R Wyatt	W-5646	5201
Indian Resource Policy Adviser	S J Houston	W-5647	5201
Senior Indian Land Claims Researcher	D T McNab	W-5644	5201
Indian Land Claims Researcher	L C Hansen	W-5643	5201
Indian Land Claims Researcher	D J Bourgeois	W-5642	5201
Clerk Stenographer	P Williams	W-5641	5201

CONSERVATION AUTHORITIES AND WATER MANAGEMENT BRANCH

Section 6, 5th Floor, Main Office — Telephone (416) 965-6285

Branch Director	M R Garrett	W-5620	6287
Manager, Conservation Authorities Section	R D Hunter	W-5620	6285
Manager, Technical Services	R B Chang	W-5620	6295
Supervisor, Program Implementation and Evaluation	J J McFadden	W-5620	6285
Supervisor, Water and Related Land Management	G S Sardesai	W-5620	6275
Policy Analyst	(Vacant)	W-5620	6281
Head, Water Basin Studies	R P Milligan	W-5620	6275
Head, Conservation and Recreation Land Management Program	R J Dickie	W-5620	1573
Financial Services Co-ordinator	(Vacant)	W-5620	7694
Supervisor, Streamflow Forecast Centre	P N Gryniewski	W-5620	6292
Flood Emergency Co-ordinator	L J Balogh	W-5620	6277
Head, Model Development	J Y Ding	W-5620	6220
Head, Coastal Zone Management	D L Streichuk	W-5620	1271
Supervisor, Administrative Support Services	Mrs D Green	W-5620	6270
Youth Programs Co-ordinator	Mrs S E Court	W-5620	1799
Library	Miss A Perrigo	W-5620	4481

GRANTS TO CONSERVATION AUTHORITIES UNDER THE CONSERVATION AUTHORITIES ACT in years ending March 31

Year	Administration	Water and Related Land Mgmt	Conservation and Recreation Land Mgmt	Lake Ontario Waterfront	Total
1980	$4,756,983	$20,466,353	$3,404,736	$1,530,000	$30,158,072
1981	5,202,220	27,724,128	3,436,411	1,500,342	37,863,102
1982	5,517,581	26,496,443	2,953,315	1,469,780	36,437,119
1983	6,591,399	26,693,614	3,130,218	1,574,000	40,989,231

PLANS REVIEWED

PLAN INPUTS AND SPECIAL LAND USE PROJECTS

Region	Subdivision	Severance	Other	Official Plans Amendments Zoning By-Laws	Plan Inputs	Special Land Use Projects (Ongoing)	Environmental Assessments
Northeastern	21	373	81	194	15	5	14
Eastern	64	1,051	125	610	55	6	7
Northwestern	19	84	19	57	31	26	19
North Central	7	126	7	94	7	4	7
Northern	14	93	17	78	32	1	10
Algonquin	14	816	206	621	10	5	5
Central	302	2,748	463	2,347	231	24	41
Southwestern	57	1,521	818	1,603	110	14	19
	498	6,812	1,733	5,604	491	85	122

AVIATION AND FIRE MANAGEMENT CENTRE

Box 310 Sault Ste Marie Ontario P6A 5L8

Telephone (705) 942-1800 Telex 067-77166 067-77134

Director	J F Goodman	(705)	942-1800
Finance and Administration Supervisor	W A Sinclair		1800
Purchasing Officer	E M Esson		1800
Fire Management Section	R G Elliott Asst Dir		1800
Provincial Fire Operations	J G Minor Spvr		1800
Research & Development	R J Drysdale Spvr		1800
Fire Management Education Co-ordinator	R B Little		1800
Chief Pilot	A L Stewart		1800
Maintenance Superintendent	G Willoughby		1800
Assistant Supt Maintenance			
Airframe Section	S J Denley		1800
Engine Section	P F Holder		1800
Quality Control Inspector	D J Moffat		1800
Communications Supervisor	J Scotland		1800
Flight Ops Officer Malton Airbase	W C Clarke	(416)	678-1172

FOREST FIRE RECORD Areas in hectares

Year	Damage	Private Property Damage	Area Burned Over		Total	Number of Fires	Area per Fire
			Crown	Private			
1917	$	$	.....	.....	155,466	1,110	140
1918	.....	.....	.....	.....	12,210	965	12
1919	.....	.....	.....	.....	373,186	1,780	210
1920	.....	.....	.....	.....	145,222	1,287	113
1921	.....	.....	.....	.....	303,326	1,269	239
1922	.....	.....	.....	.....	140,099	1,021	151
1923	.....	.....	.....	.....	857,995	1,343	639
1924	.....	.....	.....	.....	55,091	851	69
1925	.....	.....	.....	.....	76,705	1,149	67
1926	.....	.....	26,664	9,100	35,764	1,110	32
1927	.....	.....	9,216	5,248	14,464	924	16
1928	.....	.....	39,026	1,598	40,624	536	76
1929	.....	.....	246,353	6,836	253,189	1,550	163
1930	.....	.....	144,688	143,371	288,059	1,402	205
1931	.....	.....	42,843	13,120	55,963	1,851	30
1932	.....	.....	253,558	21,232	274,790	2,073	133
1933	.....	.....	131,537	10,086	141,623	1,919	74
1934	.....	.....	64,891	15,493	80,384	1,568	51
1935	.....	.....	74,090	27,309	101,439	1,309	77
1936	.....	.....	466,957	44,741	511,698	2,264	226
1937	.....	.....	81,701	9,251	90,952	1,453	63
1938	.....	.....	38,918	17,028	55,946	1,292	43
1939	.....	.....	10,558	1,218	11,776	961	12
1940	.....	.....	40,869	8,346	49,215	1,014	49
1941	.....	.....	109,991	159,751	269,742	1,265	213
1942	.....	.....	31,448	14,571	46,019	1,224	38
1943	.....	.....	13,543	7,831	21,374	624	34
1944	.....	.....	29,635	38,713	68,348	1,137	60
1945	.....	.....	7,283	12,348	19,631	966	20
1946	.....	.....	18,072	12,995	31,877	1,739	18
1947	.....	.....	15,416	18,591	34,007	1,393	24
1948	.....	.....	345,917	65,806	411,723	2,036	202
1949	.....	.....	16,427	7,880	24,307	1,834	13
1950	$ 55,148	$103,682	5,343	9,541	14,884	985	15
1951	389,447	56,389	39,118	1,854	40,972	904	45
1952	29,504	31,347	2,940	2,087	5,027	1,096	4
1953	393,874	81,778	18,016	5,782	23,508	1,520	16
1954	406,241	15,650	14,615	7,518	22,133	881	25
1955	3,591,680	184,940	150,118	10,309	160,427	2,252	71
1956	3,068,152	22,319	89,768	1,777	91,545	1,017	90
1957	463,059	113,751	9,814	9,065	18,879	1,671	11
1958	311,503	97,036	10,337	4,496	14,833	1,558	10
1959	22,041	20,757	1,044	1,093	2,137	1,029	2
1960	438,094	56,442	11,813	888	12,701	956	13
1961	31,989,802	152,639	477,894	1,549	479,433	1,305	367
1962	74,748	99,165	3,060	2,517	5,586	1,521	4
1963	706,886	39,932	16,467	6,251	22,718	1,885	12

FOREST FIRE RECORD Areas in hectares

Year	Damage	Private Property Damage	Area Burned Over		Total	Number of Fires	Area per Fire
			Crown	Private			
1964	$ 500 296	$ 19 792	9 090	2 291	11 381	1 829	6
1965	386 850	254 105	6 068	1 987	8 055	1 218	6
1966	71 521	49 457	3 421	2 413	5 834	1 921	3
1967	1 353 919	87 638	23 768	1 930	25 698	1 465	17
1968	4 174	54 146	1 078	2 751	3 829	1 219	3
1969	134 756	4 623	1 813	669	2 482	901	3
1970	1 323 041	28 815			23 537	1 239	18
1971	462 064	75 875			14 649	1 790	8
1972	1 081 876	47 446			32 029	1 604	20
1973	11 944	121 900	2 417	1 190	3 607	1 111	3
1974	12 063 428	239 384	522 641	1 346	523 987	1 625	323
1975	683 726	340 414	11 226	5 630	16 856	3 146	5
1976	26 839 738	930 514	536 529	7 578	544 107	3 985	136
1977	11 190 900	252 565	411 752	4 564	416 316	2 049	203
1978	165 267	139 386	7 040	483	7 523	940	8
1979	2 310 161	60 032	63 322	393	63 715	1 564	41
1980	72 094 096	3 254 443	524 893	35 847	560 740	1 779	315
1981	9 171 418	60 906	173 479	5 994	179 473	1 656	108
1982	116 695	71 068	2 555	1 337	3 892	1 396	3

1982 FOREST FIRES BY DISTRICT

[redacted]	[redacted]	[redacted]	[redacted]
Dryden	18	1 7	1
Fort Frances	29	264 1	9 8
Ignace	18	8 8	5
Kenora	52	99 7	1 9
Red Lake	42	271 2	6 5
Sioux Lookout	60	973 5	16 2
Atikokan	27	5 7	2
Geraldton	31	115 5	3 7
Nipigon	24	12 8	5
Terrace Bay	10	53 7	5 4
Thunder Bay	76	64 1	8
Chapleau	37	12 0	3
Cochrane	11	329 3	29 9
Gogama	22	8 3	4
Hearst	9	3 0	3
Kapuskasing	11	12 1	1 1
Kirkland Lake	20	4 2	2
Moosonee	1	40 5	40 5
Timmins	10	12 2	1 2
Biind River	26	11 1	4
Espanola	25	11 9	5
North Bay	71	503 5	7 1
Sault Ste Marie	16	3 9	2
Sudbury	231	384 4	1 7
Temagami	48	21 9	5
Wawa	26	32 9	1 3
Algonquin Park	52	16 8	3
Bancroft	29	53 3	1 8
Bracebridge	37	23 4	6
Minden	36	52 6	1 5
Parry Sound	78	57 2	7
Pembroke	72	71 8	1 0
Carleton Place	21	40 5	1 9
Tweed	83	192 7	2 3
Huronia	5	5 3	1 1
Lindsay	19	74 5	3 9
Owen Sound	13	21 7	1 7
TOTAL	1 396	3 891 8	2 8

1982 FOREST FIRES BY MONTH

Month	Number of Fires	Hectares Burned Over	Ha per Fire
April	252	1 317 5	5 2
May	278	613 3	2 2
June	134	162 1	1 2
July	354	1 641 0	4 6
August	341	143 4	4
September	26	2 7	1
October	11	11 8	1 1
TOTAL	1 396	3 891 8	2 8

DETECTION OF FOREST FIRES

Agencies	1978	1979	1980	1981	1982
Towers	0	0	1	0	0
Ministry Aircraft	136	420	484	394	230
Total Organized Detection	136	420	485	394	230
Public	750	875	1 026	1 062	1 038
Other Aircraft	54	269	268	200	128
Total Random Detection	804	1 114	1 294	1 262	1 166
Total Fires	940	1 564	1 779	1 656	1 396
Percentage Organized Detection	14	27	27	24	17

PROSECUTIONS

Actions re Forest Fires	1978	1979	1980	1981	1982
Prosecutions	27	24	178	46	72
Convictions	27	14	171	40	68

CAUSES OF FOREST FIRES - I

GENERAL CAUSES	1978	1979	1980	1981	1982
Recreation	359	407	239	493	517
Resident	91	90	232	150	224
Incendiary	35	24	34	59	39
Railways	147	169	233	153	160
Industry (Forest)	19	21	26	36	11
Industry (Other)	21	28	15	38	22
Miscellaneous (Known)	87	101	160	209	156
Unknown	16	28	47	33	30
Lightning	165	696	793	485	237
Total Fires	940	1,564	1,779	1,656	1,396

CAUSES OF FOREST FIRES - II

SOURCE OF IGNITION	1978	1979	1980	1981	1982
Smoking Materials	171	212	173	285	323
Camp Fires	186	186	117	251	243
Matches	80	65	87	109	105
Fireworks	1	1	—	2	1
Explosives	—	—	—	2	—
Fusee	2	12	4	10	9
Prescribed Burning	2	3	—	3	3
Dump Ashes, Coals	5	7	7	6	9
Burning Grass	17	23	74	46	73
Burning Brush	39	22	35	36	37
Burning Rubbish	15	13	38	17	44
Burning Garbage Dump	8	18	33	15	23
Burning Bulldozed Pile	—	2	3	4	—
Burning Sawdust Pile	—	2	1	2	2
Burning Ties	11	10	14	16	19
Burning Right-of-Way	3	5	9	10	20
Locomotive, Diesel	39	37	48	38	27
Locomotive, Steam	—	—	—	—	—
Brake Shoe	66	64	101	47	44
Hot Box	—	2	6	2	—
Power Saw	1	1	7	7	2
Mechanical Equipment	30	18	34	49	34
Power Line (Short)	15	15	17	21	15
Sparks from Chimney	—	3	2	—	2
Sparks from Burner	1	3	2	1	1
Structural Fires	11	9	10	11	11
Miscellaneous (Known)	19	22	51	54	23
Unknown	54	113	114	129	91
Lightning	164	695	792	483	235
Total Fires	940	1,564	1,779	1,656	1,396

CAUSES OF FOREST FIRES - III

RESPONSIBLE GROUPS	1978	1979	1980	1981	1982
RECREATION					
Fishermen	110	138	81	184	158
Hunters	69	13	4	25	16
Canoeists	17	27	13	23	45
Campers	55	40	41	48	61
Picnickers	7	11	10	10	14
Berry Pickers	48	98	39	105	141
TRAVELLERS					
Car Passengers	38	39	70	96	76
Hikers	17	22	10	28	25
Train Passengers	—	2	—	1	—
Guided Parties	1	—	1	2	2
RESIDENTS					
Farmers	14	11	27	18	26
Rural Residents	47	47	116	88	138
Urban Residents	4	5	15	8	12
Private Cottagers	27	18	45	32	34
Resort Owners	1	1	—	5	2
Indians (on Reserves)	5	15	21	16	14
VOCATION					
Trappers	2	—	—	1	—
Prospectors	—	2	—	2	1
Timber Cruisers	—	—	—	—	—
Survey Parties	—	2	—	—	—
Military	1	—	—	1	1
EMPLOYEE OF					
Woods Industry	16	21	21	31	12
Mining	1	1	2	9	1
Pipeline	—	—	—	—	—
Hydro	4	5	3	3	2
Telephone	1	—	1	1	—
Highway or Road	—	3	2	1	1
R.R. Section Crew	15	8	24	22	39
R.R. Train Crew	21	9	32	24	24
R.R. Work Crew	111	147	167	102	94
Other Industry	9	6	12	17	12
Natural Resources	5	7	10	34	17
Other Prov. Government	1	—	—	1	—
Federal Government	1	1	—	—	—
Municipality	—	8	5	3	6
MISCELLANEOUS					
Children	48	49	60	77	68
Youth Camps	—	—	1	3	—
Miscellaneous (Known)	28	26	50	40	24
Unknown	51	87	103	112	94
Total Human-Caused Fires	775	869	986	1,173	1,160
Percentage of *All Fires*	82	56	55	71	83

AIR SERVICE SUMMARY — I — Hours flown in years ending March 31

Year	Fire Ranging	Timber	Fish and Wildlife	Surveys	Lands	Parks
1979	3,340	1,290	4,731	182	735	662
1980	2,000	1,650	2,500	345	1,000	600
1981	3,000	1,674	2,473	342	1,065	609
1982	1,973	1,760	2,600	360	1,120	640
1983	3,037	1,670	2,460	425	1,217	530
1924-83 Total	242,303	40,593	112,111	3,875	17,612	14,286

Year	Research	Inter Ministry	Photo	Mercy Flights	Miscellaneous	Total
1979	105	2,652	578	25	364	14,633
1980	400	1,550	550	30	4,525	15,150
1981	380	1,372	621	19	3,662	15,217
1982	400	1,647	656	58	4,789	16,003
1983	456	1,885	640	13	2,855	15,188
1924-83 Total	10,339	33,570	7,542	1,894	175,617	659,742

AIR SERVICE SUMMARY — II — in years ending March 31

Year	Mercy Flights	Passengers Carried	Loads Carried Tons	Metric Tons
1979	3	27,937	806.74	888
1980	13	27,336	1,023.04	1,132
1981	10	25,480	801.06	883
1982	28	28,485	988.00	1,089
1983	8	30,267	2,069.17	2,280

ADMINISTRATION DIVISION

Room W-6345, Main Office Telephone (416) 965-7106

Assistant Deputy Minister	M. Mogford	W-6345 7106
Secretary	Mrs. E. Lynch	W-6345 7106
Finance, Planning & Evaluation Group Executive Co-ordinator	D. M. Wood	W-6347 6148
Affirmative Action Program Co-ordinator	M. Paul	W-6441 5663

COMMUNICATIONS SERVICES BRANCH

Room W-5340, Main Office — Telephone (416) 965-2756/965

Branch Director	T. E. Coleman	W-5352 .. 5-3315
Secretary	Miss M. Goh	W-5352 .. 5-3315
Senior Communications Planner	G. Merchant (acting)	W-5343 .. 5-2758
Administrative Services Section	R. Urquhart, Spvr.	W-5340 .. 5-2756
Information Services Section	Ms. V. Chavossy, Mgr	W-5351 .. 5-2756
French Language Policy	R. Bedard	W-5340 .. 3-2385
French Language Writer	F. Blais	W-5340 .. 3-2385
Media & Editorial Services Unit	K. Robertson, Spvr.	W-5353 .. 3-2385
Writing Co-ordinator	Ms. M. Welch	W-5355 .. 3-2385
Media Relations Officer	C. Ross	W-5340 .. 5-2756
Magazine Editor	Mrs. A. Erland	W-5343 .. 5-2756
Senior Travel Counsellor	Ms. C. Mahoney (acting)	W-3304 .. 5-3081
Creative Services Section	W. Yetman, Mgr	W-5445 .. 5-2780
Secretary	Miss C. Klemens	W-5440 .. 5-2780
Exhibits & Displays Unit	Mrs. E. H. Brown, Spvr.	W-5440 .. 5-2780
Exhibits Assistant	Mrs. S. Cole	W-5440 .. 5-2780
Publications Services Unit	J. R. Grayston (acting)	W-5440 .. 5-2780
Publications Editor	Ms. M. Reid	W-5440 .. 5-2780
Graphic Designer	A. Gokhan	W-5440 .. 5-2780
Audio Visual Unit	L. Walton, Spvr. (acting)	W-5450 .. 3-1325
Photographers	W. Lanning, Mgr.	W-5450 .. 3-1325
	Miss H. Bickle	W-5450 .. 3-1325
Photo Library	Miss P. Hancock	W-5341 .. 5-2758
Film & Audio-visual Consultant	L. Bondy	W-5444 .. 3-1325
Advertising & Marketing Unit	Ms. P. Purves, Co-ordinator	W-5441 .. 3-2956
Marketing Officer	G. Houlahan	W-5441 .. 3-2957

PERSONNEL SERVICES BRANCH

Room W-4520, Main Office Telephone (416) 965-3825

Branch Director	H. B. Farrant	W-4530 3825
Secretary	P. Nurse	W-4520 3825
M.O.S.S. Unit Manager	E. Polonoski	W-4525 7240
Staffing Policy & Branch Administration Manager	Mrs. E. Cardwell	W-4530 2707
Human Resources, Planning & Development Manager	R. Brayshaw	W-4422 1468
Compensation & Staff Relations Manager	D. Nagel	W-4528 0709
Occupational Health & Safety Section Manager	A. B. Shipston	W-5645 2735

PERSONNEL SERVICES BRANCH

Total Staff

March 31, 1983	Regular	Probationary	Unclassified	Total
Main Office	837	40	318	1,195
Field Offices	3,185	101	1,062	4,348
TOTAL	4,022	141	1,380	5,543
Total Number of Positions	4,398			
Total Number of Staff	4,163			
Total Number of Vacancies	235			
New Employees Hired 1982/83	160			
Management Staff	1,038			
Executive Staff	47			
Bargaining Unit Staff	3,078			
TOTAL	4,163			
Deceased	12			
Transferred	17			
Released	1			
Resigned	73			
Dismissed	1			
Retired	78			
Miscellaneous	1			
TOTAL	183			

STAFF SUMMARY

Staff at March 31	1978	1979	1980	1981	1982	1983
Regular Staff	3,614	3,919	4,088	4,060	4,093	4,022
Probationary Staff	250	456	341	322	209	141
Unclassified Staff	2,051	1,698	1,938	1,636	1,565	1,380
TOTAL	5,915	6,073	6,367	6,018	5,867	5,543
Main Office Staff	906	930	917	880	863	877
Field Office Staff	2,958	3,445	3,512	3,502	3,439	3,286
New Employees	250	862	316	306	140	160
Deceased	9	8	11	10	9	12
Superannuated	95	97	89	99	45	78
Transferred	49	32	38	1	36	17
Resigned	91	146	199	165	81	73
Dismissed	1	0	3	3	1	1
Released	1	4	1	5	0	1
Miscellaneous	0	0	0	29	0	1
TOTAL SEPARATIONS	246	287	341	312	172	183
Junior Rangers	1,918	1,968	1,800	1,736	1,736	1,636

MANAGEMENT GROUPS

Administrative	234
Clerical	13
Operational	14
Professional	286
Technical	491
TOTAL	1,038

Executive Compensation Plan -- 47

BARGAINING UNIT CATEGORIES

Administrative Services	76
Scientific & Professional Services	456
Technical Services	1,346
Office Services	388
Clerical Services	487
Maintenance Services	257
General Operational Services	68
TOTAL	3,078

ADMINISTRATIVE SERVICES BRANCH

Room W-5528, Main Office Telephone (416) 965-2711

Branch Director	J A Queen	W-5528	2711
Administrative Technology	D Waller, Chief	W-5526	4600
Analysis Unit		W-5526	4600
Forms and Records Management		W-5422	3822
Word Processing		W-5533	3-2265
Operations Analysis	R E Armstrong, Chief	W-5530	3317
Fleet & Insurance	L Krol	W-5504	1255
Supply Analysis	L Wright	W-5532	4600
Facilities Analysis	(Vacant)	W-5520	4600
Contracting Specialist		W-5531	4600
Services	T Pierro, Chief	W-5529	4600
Purchasing		W-5520	1601
Facilities Development	P Coghill, Mgr	W-5423	4645
Facilities	J Petersen	W-5423	4645
Accommodation Services	S Fenton	W-5423	4645
Support Services	H L Bembridge, Mgr	W-5302	5134
Office Services		W-5302	5134
Vehicle Equipment Officer	L Burchat	W-5302	5134
Public Service Centre		W-1640	6511
General Inquiry (MNR) (Whitney Block Info Booth)			2000
Central Supply Warehouse (51 Esander Drive, Toronto)	D Sibley, Spvr		1286
Conferences, Hospitality	M D Cantelon	W-5301	6166
Copy Centre		W-5501	6790
Mail Services		W-5310	2778
Telex & Telecopier		W-5312	2784

VEHICLES AND EQUIPMENT IN SERVICE — in year ending March 31, 1983

Type	Number in Operation
Subcompact Cars and Station Wagons	3
Compact Cars and Station Wagons	175
Full-size Cars and Station Wagons	94
Standard and Extended Pickups	788
Four-wheel Drive Vehicles	272
Crew Cabs	78
Passenger Vans and Personnel Carriers	136
Buses	8
Cab and Chassis — 10,000 GVW	93
Cab and Chassis — over 10,000 GVW	140
Cab and Chassis — specialized bodies	28
TOTAL	1,815
Motorcycles	49
Trailers (boat and equipment)	985
Trailers (refrigerated)	26
Snowmobiles	598
Tractors	306

LEGAL SERVICES BRANCH

Room W-6420 Main Office Telephone (416) 965-2748

Director	J Shantora	W-6427	2748
Solicitors	D Beck	W-6420	2748
	C L Cottle	W-6423	2748
	S Houston	W-6420	2748
	B G Jones	W-6422	2748
	R C Kay	W-6428	2748
	L A Low	W-6425	2748
	J M Pounder	W-6420	2748
	J Skala	W-6420	2748
	T N Trow	W-6426	2748

LEGAL SERVICES ending March 31 1983

Regulations Prepared and Processed	Orders in Council	Legal Agreements
54	570	320

The above figures are approximate

LEGISLATION

The Acts administered by the Ministry are as follows.

LANDS AND WATERS GROUP

THE BEDS OF NAVIGABLE WATERS ACT (sometimes referred to as the "Cochrane Act") is declaratory legislation relating to title in the beds of navigable waters. It followed the decision in the 1911 case of Keewatin Power versus The Town of Kenora. By the Act, the beds are deemed not to have passed to the grantee of bordering Crown land in the absence of an express grant.

THE ONTARIO GEOGRAPHIC NAMES BOARD ACT provides for the establishment of a Geographic Names Board for Ontario having the duty to gather information respecting the names of places and geographical features, make recommendations thereon, collaborate with the Canadian Permanent Committee on Geographic Names, and provide information to government departments, etc. The Minister may approve a recommended name and thereupon it shall be used by all government departments and agencies in the preparation of maps and other publications.

THE ONTARIO HARBOURS AGREEMENT ACT, 1962-3, confirms on behalf of Ontario the agreement between Ontario and Canada establishing the harbours which were public harbours at Confederation, providing that mines and minerals therein are administered by Ontario and confirming grants and quit claims listed therein. The federal harbours are Amherstsburg, Belleville, Brockville, Chatham, Collingwood, Fort William, Gananoque, Goderich, Kincardine, Kingston, Kingsville, Leamington, Oshawa, Owen Sound, Penetanguishene, Port Arthur, Port Burwell, Port Hope, Port Stanley, Prescott, Rondeau Bay, Sarnia, Sault Ste. Marie, Southampton, Toronto, Whitby and Windsor.

THE PUBLIC LANDS ACT provides for: (1) A Public Agricultural Lands Committee to recommend on agricultural lands and their settlement, replacing the regulations on this subject; (2) The disposition of Crown land for a variety of purposes by sale, lease or licence, and by auction or tender; (3) The management of Crown land by the Ministry by zoning for land use, setting apart for public use, research, etc., and through agreements with municipalities on beaches and water lots; (4) The administration of roads on Crown lands including the designation of public forest roads and agreements with occupiers of private forest roads respecting the use by the public of private forest roads; (5) The administration and control of the construction and maintenance of dams; (6) The granting of water powers and privileges.

THE SURVEYORS ACT deals with the Association of Ontario Land Surveyors and the rules governing membership and conduct. The Minister or his appointee and the Surveyor-General are members of the Council of Management.

THE SURVEYS ACT defines the system of surveys and the rules for surveyors. The Minister orders surveys made on his volition or upon application to settle disputes or lost lines, etc., and hearing evidence, he confirms the surveys, with or without amendment. His decision is subject to appeal to a judge of the Supreme Court.

THE NORTH GEORGIAN BAY RECREATIONAL RESERVE ACT, 1962-3, establishes the North Georgian Bay Recreational Reserve and provides for the planning and development thereof and the appointment of a committee to advise the Minister thereon.

THE MINING ACT with respect to: the administration of public lands for mining purposes; the issuing of licences and leases relating to exploration and drilling for, and the production of, minerals and oil and natural gas; the staking and recording of mining claims; and the rights of licensees and lessees under the Act. An acreage tax is levied under this Act. (See under Mineral Resources Group).

THE BEACH PROTECTION ACT prohibits the removal of sand from the bed, bank, beach, shore or waters of any lake, river or stream in Ontario except under the authority of a licence issued under the Act. Licencees may be required to pay a fixed sum per yard of sand removed from property of the Crown.

THE CANADA COMPANY'S LAND ACT, 1922, empowers the Crown to sell and convey to purchasers of lands from the Canada Company the mineral rights in the lands.

THE LAKES AND RIVERS IMPROVEMENT ACT deals with: the construction, repair and use of dams; timber driving; and timber slide companies and tolls. The Minister is charged with the responsibility of settling disputes between conflicting users under certain circumstances. An officer may be appointed to regulate the use of waters or works.

THE CONSERVATION AUTHORITIES ACT provides for the establishment of conservation authorities for the purpose of establishing and undertaking in the area over which they are given jurisdiction, programs designed to further the conservation, restoration, development and management of natural resources other than gas, oil, coal and minerals.

FOREST RESOURCES GROUP

THE CROWN TIMBER ACT enables the granting of the following four types of licences to cut Crown timber: a licence based on a call for tenders, a licence to salvage timber, a licence for areas that do not exceed 64.75 hectares (160 acres), and a licence approved by Order in Council for large areas.

The Act also enables the Minister to enter into comprehensive forest management agreements with members of the forest industry to ensure that forests under the agreements are harvested and regenerated to produce successive crops of timber on a sustained yield basis.

Crown Management Units may be established under the Act and agreements entered into for the supply of Crown timber from such units. Under this arrangement, the party to the agreement does not have exclusive rights in a specific area until a licence is granted to him to fill his requirements for an operating season.

Crown dues and area charge are fixed by the regulations.

Other subjects dealt with are: forest management, operating and annual plans, examination of scalers and licensing of scalers; licensing of mills; penalties for wasteful practices, unauthorized cutting, removal of timber for scaling, and other violations; and protection of the Crown's interests through seizure of timber and a statutory lien for Crown charges.

THE FORESTRY ACT. Under this Act: (1) The Minister enters into agreements with landowners such as municipalities, conservation authorities and the National Capital Commission (Ottawa) to manage the forest lands; (2) Ministry tree nurseries are established and nursery stock is distributed; (3) Private forest reserves are set up on private lands with the consent of the owner; (4) The Minister, with the approval of the Lieutenant Governor in Council, may establish programs for the encouragement of forestry. At present, a managed forest tax reduction program has been established by the Minister.

THE SETTLERS' PULPWOOD PROTECTION ACT provides for the regulation of the sale and of the price of pulpwood cut from settlers' land.

THE SPRUCE PULPWOOD EXPORTATION ACT provides for the exportation under the authority of an Order-in-Council of unmanufactured spruce pulpwood from lands granted under special Acts which prohibit such export.

THE TREES ACT provides that, with the Minister's approval, municipalities may pass by-laws restricting and regulating the destruction of trees and appoint enforcement officers. Generally, by by-law, municipalities may acquire land for forestry purposes and enter into agreements with the Minister for the management of such lands and related matters.

THE WOODLANDS IMPROVEMENT ACT provides for the Minister to enter into agreements with owners of lands suitable for forestry purposes and situate in a private forest management area for the planting of nursery stock or stand improvement.

THE WOODMEN'S EMPLOYMENT ACT authorizes the appointment of inspectors and the making of regulations respecting conditions in lumber camps. It also provides that Crown timber licensees are responsible for the acts and omissions of their jobbers and subcontractors who carry out operations.

THE WOODMEN'S LIEN FOR WAGES ACT provides a lien and a procedure to enforce such lien for persons performing labour on timber.

THE ALGONQUIN FORESTRY AUTHORITY ACT establishes a Crown corporation known as the Algonquin Forestry Authority to harvest Crown timber in Algonquin Provincial Park and public lands adjacent to the park, to sell the logs, and also to carry out such forestry, land management and other programs and projects as the Minister of Natural Resources authorizes.

THE FOREST TREE PEST CONTROL ACT provides for the control of outbreaks of forest tree insects and diseases on private lands.

MINERAL RESOURCES GROUP

THE MINING ACT with respect to: the issuing and administration of exploratory licences and production leases for oil and natural gas on public lands in designated parts of Ontario; processing applications for exemptions from restrictions on foreign processing; refinery licences; and the regulation of mining operations conducted within Ontario except under Part IX. (Also see under Lands and Waters Group.)

THE PITS AND QUARRIES CONTROL ACT provides for the regulation of pit and quarry operations in designated parts of Ontario. Operations in designated areas must be licensed under the Act and are subject to periodic review to assure compliance with the provisions of the Act, the regulations and site plan.

THE PETROLEUM RESOURCES ACT sets forth licensing requirements for various aspects of oil and natural gas exploration, drilling and production and provides for the making of regulations respecting oil and gas conservation and the safe operation of drilling and production facilities.

THE MINING TAX ACT a revenue generating unit which offers incentives to mineral producers for exploration, production and processing in Ontario, imposes a profit tax on Ontario mines. The tax is assessed on the value of output of the mine at the pit's mouth determined in accordance with the provisions of the Act.

THE ONTARIO MINERAL EXPLORATION PROGRAM ACT provides incentives to encourage mineral exploration activities in the province by providing grants/tax credits equal to 25 per cent of eligible exploration expenses to prospectors, non-producing exploration companies and to individual investors and corporations not directly engaged in mining activities in order to stimulate the financing of mineral exploration.

THE INDUSTRIAL AND MINING LANDS COMPENSATION ACT provides for agreements between the owner or operator of a mine and the owner or lessee of any land for payment of compensation for any damage or injury resulting or likely to result to the land or to its use and enjoyment from the operation of the mine.

THE GAS AND OIL LEASES ACT sets out the procedure whereby a lessor under a gas or oil lease may, upon default by the lessee under the terms of the lease, obtain an order declaring the lease void.

OUTDOOR RECREATION GROUP

THE ENDANGERED SPECIES ACT provides for the conservation, protection, restoration and propagation of species of flora and fauna of the Province of Ontario that are threatened with extinction.

THE GAME AND FISH ACT deals with the management of wildlife resources; game animals; game birds (upland); fur-bearing animals; frogs; sale and rearing of game fish; and offences and enforcement. Regulations made under the Act establish open seasons for hunting and trapping; bag limits; Crown game preserves; the licensing of hunters, trappers, guides, persons operating game bird hunting preserves, and persons selling game fish for stocking and human consumption; the regulating of dogs used in hunting, aircraft transporting hunters, and conduct of hunters (hunter safety); and farmer-hunter relations. The Game and Fish Hearing Board was established under the Act on November 15, 1973.

THE FISH INSPECTION ACT is complementary to the Federal Act.

THE FISHERIES ACT (CANADA). Ontario Fishery Regulations are made under this Act. They relate to open seasons for angling and commercial fishing and the licences required. The form of licences and the fees are prescribed under The Game and Fish Act.

THE FISHERIES LOAN ACT provides for loans to persons carrying on the business of commercial fishing or any other business dependent in whole or in part on the taking of fish from waters in which such taking has been prohibited by reason of the contamination of fish resulting from pollution of the water. Provision is made for federal-provincial agreements respecting the sharing of such loans.

THE FRESHWATER FISH MARKETING ACT (ONTARIO) complements the Freshwater Fish Marketing Act (Canada). Through these Acts and the federal-provincial agreement, the Freshwater Fish Marketing Corporation established under the Federal Act is the sole purchaser of commercial fish, as defined in the Federal Act, taken in that part of Ontario designated in the regulations, i.e., that part of Ontario westerly of longitude 86° except the Territorial District of Rainy River but including that part of Lake of the Woods in the Territorial District of Rainy River. Sales to and purchases by persons for their own consumption or for consumption by persons or animals in the course of the purchaser's business are excepted.

THE WILD RICE HARVESTING ACT prohibits the harvesting of rice on Crown land except under the authority of a licence.

THE WOLF DAMAGE TO LIVESTOCK COMPENSATION ACT, 1972, provides for payment of compensation to the owners of livestock killed or injured by wolves.

THE MIGRATORY BIRDS CONVENTION ACT. Open seasons for migratory birds are set under this Act.

THE PROVINCIAL PARKS ACT provides for the establishment of provincial parks and their management and for certain employees having the authority of the O.P.P. in a provincial park. Advisory committees for one or more provincial parks may be appointed by the Minister with the approval of the Lieutenant-Governor in Council.

Parks may be classified as a natural environment park, a nature reserve park, a wilderness park, a recreational park, a waterways park, or an historical park. Any of these classes may be zoned with controlled use in zones.

Mining is prohibited in provincial parks except as provided in the regulations. The regulations on mining were revoked in 1956 but rights and interest existing at that time were preserved.

Hunting is prohibited in provincial parks except as provided in the regulations under The Game and Fish Act or where the prohibition is removed by designation of the Lieutenant-Governor in Council under The Provincial Parks Act. This does not apply to the Townships of Bruton and Clyde (added to Algonquin Provincial Park by a Special Act).

Concession leases are granted under the Act. The province calls for tenders for buildings and facilities.

Vehicle admission charge is $2.50 per day or $25.00 for the season. Campsite charges are $6.25 per day, or $6.75 per day where comfort station facilities are available, and $8.25 per day for campsites with electrical power. The charge for an extra car on a campsite is $3.00 per day. On unorganized campsites in park interiors, the charge is $4.00 per boat per day.

The above fees reflect those charged during peak periods. They may vary, depending on location and time of year.

This Act does not apply to any park under the management of the Niagara Parks Commission, the St. Lawrence Parks Commission or the St. Clair Parkway Commission.

THE WILDERNESS AREAS ACT was passed on March 26, 1959, to preserve areas having some unique feature. Development or utilization of the natural resources in an area more than 260 ha (640 acres) in size is not affected by this Act.

THE PARKS ASSISTANCE ACT provides for the establishment of parks in municipalities or in territory without municipal organization. The Minister may with the approval of the Lieutenant-Governor in Council make grants not exceeding 50 per cent of the cost of acquiring land and developing such parks. The parks established under the Act are to be maintained and operated in a manner complementary to provincial parks.

AVIATION AND FIRE MANAGEMENT CENTRE

THE FOREST FIRES PREVENTION ACT applies to the seven fire regions set up by regulation. The fire season, from April 1st to October 31st, may be extended by regulation. Fire permits are required during the fire season to (a) start fires in a fire region except for fires set out for cooking or warmth or to (b) ignite fireworks in or within 300m of a forest or woodland. Work permits are required at any time of the year for carrying on any logging, mining, industrial operation or clearing in or within 300 m of a forest or woodland. Areas may be established as restricted fire zones in which fires for cooking or warmth will be restricted to portable stoves and barbecues or as restricted travel zones in which a travel permit will be required except on public roads, cities, towns, villages, police villages, supervised camping grounds and water adjacent thereto. The Minister may declare emergency areas and may make orders for suppression and the safety and evacuation of persons. The Minister may enter into agreements with Canada, any province, any federal or provincial agency or municipality respecting the prevention and control of forest fires. The regulations establish fire precautions.

GENERAL

THE MINISTRY OF NATURAL RESOURCES ACT effective as of April 1, 1972, created the new Ministry of Natural Resources by amalgamating the former Department of Lands and Forests and Department of Mines and Northern Affairs and repealed the provisions of a number of Acts on which the departments depended for administrative authority. Effective October 30, 1973, the Act provides for the appointment of a Mining and Lands Commissioner and advisory committees.

THE LAKE OF THE WOODS CONTROL BOARD ACT, 1922, is complementary to a Federal Act of 1921. It deals with the regulation of the water levels of the Winnipeg River, the English River, Lac Seul and Lake St. Joseph. The Board was created following a report in 1917 by the International Joint Commission which was established under a treaty made in 1909 between the United States and Great Britain. The membership of the Board consists of a Federal representative and one from Manitoba and two from Ontario. One Ontario member is appointed by the Ontario Hydro. The other is R. M. Odell, Head, Consultative Services, Conservation Authorities and Water Management Branch, Ministry of Natural Resources, with R. B. Chang as alternate member.

The Board has the duty to secure severally and at all times the most dependable flow and the most advantageous and beneficial use of the Winnipeg and English Rivers and, for the purpose, to regulate the overflow of —

(a) Lake of the Woods, to levels recommended by the International Joint Commission as agreed by Canada and the United States;

(b) Lac Seul, to levels recommended by the Board and approved by the Lieutenant-Governors in Council of Ontario and Manitoba and to regulate the flow into Lac Seul through the Lake St. Joseph diversion;

(c) Winnipeg River, between its junction with the English River and Lake of the Woods, and the English River between its junction with the Winnipeg River and Lac Seul, and

(d) Other waters of the watershed of the Winnipeg River as are placed under its jurisdiction by the Governor-General in Council and the Lieutenant-Governors in Council of Ontario and Manitoba.

THE LAC SEUL CONSERVATION ACT, 1928, provides for the execution of an agreement between the Minister of Lands and Forests and the Government of Canada regarding the construction of a conservation dam at the outlet of Lac Seul.

THE OTTAWA RIVER WATER POWERS ACT, 1943, ratifies and confirms an agreement between the Province of Ontario, the Province of Quebec, the Hydro-Electric Power Commission of Ontario and the Quebec Streams Commission respecting the development of water power on the Ottawa River.

THE SEINE RIVER DIVERSION, 1952, confirms the partial diversion of the Seine River and authorizes the completion and operation of the diversion by Steep Rock Iron Mines Limited.

THE NATIONAL RADIO OBSERVATORY ACT, 1962-3, provides for the transfer of administration and control of certain public lands in the Township of White, District of Nipissing, to Canada for the maintenance and operation of a national radio observatory.

THE GANANOQUE LANDS ACT, 1961-2, vests certain lands in the town of Gananoque in the Crown and authorizes the sale of encroachments to adjoining owners for a fee of $50.00 and the granting of the balance of the land.

THE ALGONQUIN PROVINCIAL PARK EXTENSION ACT, 1960-1, adds the public lands in the Geographic Townships of Bruton and Clyde in the Provincial County of Haliburton to the park, subject to hunting.

THE MINERAL EMBLEM ACT, 1975, adopts the amethyst as the mineral emblem of the Province of Ontario.

THE MANITOBA-ONTARIO LAKE ST. JOSEPH DIVERSION AGREEMENT AUTHORIZATION ACT, 1958, provides for entry by Ontario and The Hydro-Electric Power Commission of Ontario into an agreement with Manitoba and The Manitoba Hydro-Electric Board in respect of the diversion of waters into the Winnipeg River and electical power generated from such waters in Ontario and Manitoba.

MINING AND LANDS COMMISSIONER

Box 330, 24th Floor, 700 Bay Street Telephone (416) 965-1824
Toronto, Ontario M5G 1Z6

Commissioner	G. H. Ferguson, Q.C.
Administrative Assistant	J. K. Kinsella

JUDGMENTS, ORDERS AND REPORTS

Year	Extensions For Work & Lease	Extensions For Tagging	Special Renewals Of Licences	Misc.	Total
1979	858	—	63	73	994
1980	1,046	1	74	60	1,181
1981	1,338	1	73	75	1,487
1982	1,430	—	80	154	1,664
1983	1,411	—	74	119	1,604

PROJECTED REVENUE FROM EXTENSION ORDERS

Year	No. Of Claims Prior To Default	Amount	No. Of Claims Relief From Forfeiture	Amount
1979	8,147	$40,735	871	$ 8,710
1980	8,434	$42,170	694	$ 6,940
1981	11,957	$59,785	1,329	$13,290
1982	13,692	$68,460	1,801	$18,010
1983	13,675	$68,380	1,863	$18,630

HEARINGS UNDER STATUTES OF THE MINISTRY

Year	Beach Protection Act	Conservation Authorities Act	Lakes and Rivers Improvement Act	Mining Act	Mining Tax Act	Other	Total
1979	—	11	1	9	3	—	24
1980	—	11	1	6	1	—	19
1981	—	4	1	13	—	—	18
1982	—	17	—	36	1	1	55
1983	—	16	1	27	—	—	44

MATTERS WITHDRAWN, ABANDONED OR TRANSFERRED TO SUPREME COURT

1979	—	8	—	—	1	—	9
1980	—	12	4	4	1	—	21
1981	—	1	—	3	—	—	4
1982	—	9	—	3	—	—	12
1983	—	3	—	9	—	—	12

FINANCE, PLANNING AND EVALUATION GROUP

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Executive Co-ordinator	D. M. Wood	W-6347 6148
Executive Assistant	Mrs. C. Caddell	W-6346 6147
Management Planning and Analysis Director	D. Johnstone	W-6350 4143
Systems Services		
Director	J. H. Findeis	W-4429 2750
Systems Co-ord. Mgr.	C. K. Moulson	W-4426 5674
Manager, Data Base Co-ordinator	L. Bailey	W-4427 .. 3-1327
Manager, Systems	R. Seel	W-4428 5672

FINANCIAL SERVICES BRANCH

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Branch Director	A. C. Goddard	W-4324 2761
Chief Accountant	A. R. Taylor	W-4326 2761
Accounts Payable Section	J. T. Tunnicliff	W-4302 2764
Licence Issuing Section	T. Headley	W-4342 5848
Payroll Section	C. P. Edward	W-4341 1473
Revenue Section	S. A. Perry	W-4443 2770
Financial Reporting and Expenditure Control Sect.	R. Kerr (acting Mgr.)	W-4322 .....1895 W-4321 1895
Financial Reporting & Claims	V. Ferrara	W-4321 1895
M.I.S. Implementation	I. A. Nott	W-4441 6840
Financial Methods Section	G. Jarzabek, Mgr.	W-4328 1218
Financial Policy Development	E. V. Young, Mgr.	W-4340 1033

REVENUE AND EXPENDITURES — in years ending March 31

Year	Budgetary Revenue	Budgetary Expenditure
	$	$
1979	129,401,477	246,388,247
1980	202,825,624	279,799,068
1981	275,562,265	349,475,311
1982	160,546,904	363,253,018
1983	135,735,095	374,348,745

LANDS REVENUE — in years ending March 31

Year	Water Power	Crown Land Sales	Crown Land Rentals	Park Rentals & Fees	Pits and Quarries Licences	Land Use Permits
	$	$	$	$	$	$
1979	16,132,257	762,394	741,831	41,672	109,175	440,550
1980	19,279,984	1,899,009	577,784	57,788	116,625	479,869
1981	19,158,930	2,936,644	754,447	131,733	114,125	478,788
1982	20,604,400	2,243,525	947,993	125,483	159,275	558,492
1983	23,613,132	1,690,312	994,362	—	162,750	647,007

Year	Assignments & Extension Fees	Cons. Authorities Federal Agreements	Return of Grants	Recovery Prior Years Land Acquisition	Misc.	Total
	$	$	$	$	$	$
1979	29,906	575,491	127,846	5,402	40,437	19,006,961
1980	22,045	133,317	54,228	94,270	98,218	22,813,137
1981	85,131	413,588	69,325	2,243	270,350	24,415,304
1982	16,300	511,589	469,201	103,966	87,549	25,827,773
1983	20,453	1,103,543	148,277	2,791	115,146	28,497,773

TIMBER REVENUE — in years ending March 31

Year	Stumpage Charges	Timber Area Charges	Nursery Tree Sales	Agreement Forest	Federal Agreement	Misc.	Total
	$	$	$	$	$	$	$
1979	37,193,516	1,832,965	242,380	494,525	795,530	96,966	40,655,882
1980	42,729,326	5,471,287	235,525	635,368	26,344	86,385	49,184,235
1981	47,266,552	4,401,176	609,097	282,646	1,885	92,587	52,653,943
1982	38,204,534	4,437,802	818,152	354,783	9,751	68,697	43,893,719
1983	39,137,899	3,435,840	943,801	539,326	—	64,177	44,121,043

MINING REVENUE — in years ending March 31

Year	Licences and Permits	Mining Claims	Sale of Mining Lands	Rentals	Royalties	Taxes	Forfeitures	Laboratory Fees	Rec. of Prior Years Expenditure	Federal Agreement	Total
	$	$	$	$	$	$	$	$	$	$	$
1979	60,875	254,066	8,236	827,911	1,380,839	42,372,537	3,360	80,499	125,394	—	45,113,717
1980	103,787	362,937	6,860	948,112	1,539,814	99,674,524	3,330	125,936	31,891	—	102,797,191
1981	111,328	639,844	11	847,501	2,380,790	161,061,781	4,060	108,408	—	—	165,153,723
1982	319,952	537,731	3,191	582,818	2,250,102	55,411,740	2,840	153,161	—	—	59,261,535
1983	412,918	528,050	1,375	1,695,196	6,101,775	26,178,380	1,980	163,410	—	1,187,031	36,270,115

PROVINCIAL PARKS REVENUE — in years ending March 31

Year	Permits	Campsite Permits	Concessions Rental	St. Lawrence Lic. & Permits	Federal Agreement	St. Clair Parkway Commission	Misc.	Total
	$	$	$	$	$	$	$	$
1979	913,499	5,238,214	371,071	1,791,382	288,258	—	168,961	8,771,385
1980	971,351	5,325,333	450,018	1,896,935	1,337,144	115,000	100,850	10,196,631
1981	935,283	5,585,691	477,926	1,931,825	2,448,976	15,000	133,917	11,528,618
1982	1,215,227	5,519,852	356,984	1,933,584	1,572,055	18,000	188,964	10,804,666
1983	1,195,392	6,555,071	402,132	—	190,089	1,500	162,470	8,506,654

FISH AND WILDLIFE REVENUE — in years ending March 31

Year	Non-Res. Angling	Other Fishing	Commercial Fishing	Non-Res. Hunting	Resident Bear	Resident Deer	Resident Moose	Resident Groundhog	Res (Gun) Hunting
	$	$	$	$	$	$	$	$	$
1979	5,825,469	104,533	96,832	1,935,617	12,489	886,363	1,235,920	80,624	1,022,792
1980	5,750,812	111,185	104,928	2,260,030	13,359	1,129,511	1,436,576	74,068	1,502,536
1981	7,513,033	152,757	122,301	1,605,102	87,738	1,184,553	1,483,473	100,653	1,629,245
1982	7,610,191	156,957	117,419	1,490,490	122,105	1,296,196	1,375,086	83,677	1,584,495
1983	7,466,134	169,829	148,254	1,382,798	132,636	1,362,761	1,719,562	78,807	1,580,569

Year	Dog	Trappers	Fur Dealers	Hunter Exam Fee	Prov. Park Hunting	Miscellaneous Fees and Licences	Royalty Game	Agreements Outside Agencies	Agreements Federal	Total
	$	$	$	$	$	$	$	$	$	$
1979	17,252	62,177	7,750	101,613	67,312	97,424	562,619	1,070	309,919	12,427,775
1980	37,179	66,730	8,170	88,797	64,408	153,246	931,496	—	266,117	13,999,328
1981	76,998	69,635	8,400	90,006	66,088	118,488	1,201,461	76,016	291,475	15,877,422
1982	75,957	65,387	8,950	85,722	53,400	140,728	1,159,433	123,947	361,447	15,911,587
1983	73,258	62,923	9,675	86,178	67,264	229,813	729,477	165,750	80,254	15,545,942

OTHER CASH RECEIPTS — in years ending March 31

Year	Sale of Maps Publications etc.	Fire Costs Recovered	House Rentals	Sale of Buildings	Sale of Van and Equipment	Confiscated Articles	Frost Centre	Non-Recurring Items and Miscellaneous	Board and Lodging	Total
	$	$	$	$	$	$	$	$	$	$
1979	1,931,496	391,611	436,711	23,784	224,918	32,445	230,637	154,155	—	3,425,757
1980	2,253,723	67,284	452,803	26,840	420,736	51,918	245,126	316,672	—	3,835,102
1981	2,265,256	651,527	415,824	14,513	1,648,707	21,714	296,127	378,010	241,577	5,933,255
1982	2,300,366	670,538	450,197	5,112	479,650	46,149	340,651	379,107	175,854	4,847,624
1983	686,651	306,055	411,266	30,012	393,846	59,412	401,061	301,008	204,257	2,793,568

INTERNAL AUDIT SERVICES BRANCH

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Branch Director	A. A. Ward	W-4637	4087
Main Office Audit Manager	D. L. Lay	W-4634	4088
Northeastern Audit Section 875 Queen Street East Sault Ste. Marie, P6A 2B3 Senior Auditor	W. C. Johnstone	(705) 949-1231 (IC 842)	
Northwestern Audit Section Box 5000 Thunder Bay, P7C 5G6 Audit Manager	N. D. Nurse	(807) 475-1211 (IC 844)	
Southern Audit Section c/o District Office Maple, L0J 1E0 Audit Manager	D. A. Dooling	(416) 832-2761 Ext. 281	

BUDGET AND PROGRAM EVALUATION BRANCH

Room W-6540, Main Office Telephone (416) 965-4218

Branch Director	M. W. Cox	W-6547	4218
Special Adviser	D. M. Powers	W-6548	4210
Program Planning, Budget and Control Section			
Manager	D. Cope	W-6540	9052
Budget Supervisor	J. Heywood	W-6549	5539
Budget Officer	K. Stahl	W-6549	5539
Control Supervisor	R. McDougal	W-6549	7034
Control Accountant	P. Chen	W-6549	7034
Senior Adviser	J. Botterill	W-6543	7086
Group Adviser	P. King	W-6549	7088
Group Adviser	S. Gourlay	W-6549	7088
Division Adviser	L. Petterson	W-6549	7152
Financial Planning and Program Evaluation			
Manager	P. Wormwell	W-6546	7182
Senior Program Officer	S. Fasken	W-6545	7409
Senior Program Officer	S. Mathewson		7409
Special Employment Co-ordinator BILD	D. Cherry	W-6311	7717
Program Officer	A. Ireland-Smith	W-6544	7512

NORTHWESTERN REGION

D. R. Johnston	Regional Director
W. J. Straight	Deputy Reg. Director
D. R. Fortner	Deputy Reg. Director
G. N. McGeachy	Admin. Co-ordinator
K. J. Chambers	Biologist
R. J. Kincaid	Fire Mgt. Officer
G. N. Warner	Safety Officer
R. C. Beard	Geologist
D. A. Janes	Geologist
Sioux Lookout	737-1291
M. Durocher	Geologist
Red Lake	727-2252

Box 5160, 808 Robertson St., Kenora
Ont. P9N 3X9 — Phone (807) 468-3111

A. G. Mathews	Forester
G. G. Pyzer	Lands Co-ordinator
A. A. Gordon	Parks & Rec. Co-ord.
S. O. Russell	Eng. Services Co-ord.
W. S. Mathew	Mining Lands Admin.
A. Hanson	Mining Recorder
Sioux Lookout	737-2100
A. S. Rivett	Mining Recorder
Red Lake	727-2250

Region Service Centre, G. M. Fenelon, Box 850, Dryden — Phone (807) 937-4402
Dryden Forest Station, T. R. Myland, Box 90, Wabigoon — Phone (807) 938-6326

KENORA DISTRICT

Box 5080, 808 Robertson St., Kenora, Ont.
P9N 3X9 — Phone (807) 468-9841

D. B. McGregor	District Manager
R. G. McCue	Administration
D. Philippi	Field Services
G. K. Winterton	Fish & Wildlife
W. H. Mills	Forests
T. J. Lunny	Lands
R. W. Paterick	Parks

FORT FRANCES DISTRICT

922 Scott Street, Fort Frances, Ont.
P9A 1J4 — Phone (807) 274-5337

J. K. Cleaveley	District Manager
B. Y. Katerick	Administration
S. E. Cameron	Field Services
E. J. Swift	Fish & Wildlife & Parks
A. P. Matiece	Forests
C. E. Horne	Lands

SIOUX LOOKOUT DISTRICT

Box 309, Sioux Lookout, Ont.
P0V 2T0 — Phone (807) 737-1140

A. J. Stewart	District Manager
W. L. Bertrand	Administration
H. D. Morrison	Field Services
A. A. Martin	Fish & Wildlife
J. M. McIntyre	Forests
F. E. Brown	Lands & Parks

DRYDEN DISTRICT

Box 3000, Ontario Govt. Bldg., Dryden, Ont.
P8N 3B3 — Phone (807) 223-3341

G. M. Tupling	District Manager
J. Hamilton	Administration
A. MacDonald	Field Services
F. D. Kennedy	Forests
H. Gibbard	Fish & Wildlife
D. Lindstrom	Lands & Parks

RED LAKE DISTRICT

Box 323, Red Lake, Ont.
P0V 2M0 — Phone (807) 727-2531

E. W. Everley	District Manager
B. A. Larkin	Administration
B. A. Sandilands	Fish & Wildlife
P. R. Gagnon	Forests
T. E. Campbell	Field Services
E. R. Keast	Lands

IGNACE DISTRICT

Box 448, Ignace, Ont.
P0T 1T0 — Phone (807) 934-2233

T. E. Dodds	District Manager
W. A. Brunton	Administration
P. R. Croskery	Fish & Wildlife
B. Ferguson	Forests
J. D. Bond	Field Services
P. J. Pincombe	Lands, Parks

NORTH CENTRAL REGION

G. P. Elliott	Regional Director	
L. M. Affleck	Deputy Reg. Director	
W. Hendry	Deputy Reg. Director	
J. D. Chadwick	Admin Co-ord	1221
R. T. Thomson	Biologist	1231
A. B. Johnson	Fire Mgt. Officer	1241
J. T. Rudolph	Forester	1251
A. W. Currie	Parks-Rec. Co-ord.	1281
M. N. Kantymir	Personnel	1201

Box 5000, Ontario Government Building
435 James St. South, Thunder Bay 'F'
Ont. P7C 5G6 — Phone (807) 475-1261

R. B. Adamson	Engineer	1301
D. J. Murray	Lands Co-ord.	1321
K. G. Fenwick	Geologist	1331

Dorion Trout Rearing Station, F. S. Watson ..... Phone (807) 857-2322
Regional Fire Centre, L. R. Hutchinson ..... Phone (807) 475-1405
Thunder Bay Forest Station, A. Wynia ..... Phone (807) 557-6409

THUNDER BAY DISTRICT

Box 5000, Thunder Bay 'F', Ont.
P7C 5G6 — Phone (807) 475-1221

D. E. McHale	District Manager
R. G. Griffin	Administration
(vacant)	Field Services
H. D. Howell	Fish & Wildlife
R. G. Klein	Forests
T. J. Leveque	Parks & Rec
J. W. Suttie	Lands

ATIKOKAN DISTRICT

108 Saturn Avenue, Atikokan, Ont.
P0T 1C0 — Phone (807) 597-6971

A. M. Harjula	District Manager
B. A. Prince	Administration
R. N. Boyle	Field Services
B. H. Gibson	Fish & Wildlife
R. J. White	Forests
D. H. Elder	Lands & Parks
M. Horan	Fire Control

TERRACE BAY

Box 280, Terrace Bay, Ont.
P0T 2W0 — Phone (807) 825-3205

P. A. Strassburger	District Manager
G. K. Sidhu	Administration
R. R. Cockerline	Field Services
J. A. Chappel	Fish & Wildlife
T. B. Scott	Lands & Parks

Manitouwadge Work Centre
Box 309, Manitouwadge, Ont.
P0T 2C0 — Phone (807) 826-3225

R. Waito	Forests
C. J. Currie	Fire Control

GERALDTON DISTRICT

Box 640, Geraldton, Ont.
P0T 1M0 — Phone (807) 854-1030

E. H. Stone	District Manager
L. S. Morrow	Administration
E. P. Herrington	Field Services
W. J. Cook	Fish & Wildlife
D. Jovic	Forests
A. Hoshino	Lands & Parks

NIPIGON DISTRICT

Box 970, Nipigon, Ont.
P0T 2J0 — Phone (807) 887-2120

G. O. Koistinen	District Manager
M. Wilson	Administration
W. R. Doyon	Field Services
L. Townes	Fish & Wildlife
G. R. Swant	Forests
D. Bean	Lands & Parks

NORTHERN REGION

R. Riley — Regional Director
L. H. Lingenfelter — Deputy Reg. Director
R. I. Thompson — Admin. Co-ord.
J. Young — Biologist
H. I. Mattson — Parks & Rec. Co-ord.
J. S. Dougan — Personnel Co-ord.
C. Roswalka — Safety Officer
4 Govt. Rd. E., Kirkland Lake, Ont.
P2N 1A1 — Phone (705) 567-5421
R. C. Barty — Operations Manager
Swastika Forest Station, L. J. Forcier
Hill's Lake Trout Rearing Station, P. Graf

COCHRANE DISTRICT

Box 730, 2 Third Ave., Cochrane, Ont.
P0L 1C0 — Phone (705) 272-4365
G. A. Wright — District Manager
G. Nantel — Administration
A. C. Hutchinson — Field Services
W. Therriault — Outdoor Rec.
J. Starr — Forests
F. Wright — Lands

CHAPLEAU DISTRICT

34 Birch Street, Chapleau, Ont.
P0M 1K0 — Phone (705) 864-1710
R. Cleroux — District Manager
O. E. Crawford — Administration
J. R. Russell — Field Services
G. A. Black — Fish & Wildlife
P. K. Bidwell — Forests
J. P. Dick — Lands
G. W. Dingee — Parks & Rec.

GOGAMA DISTRICT

Box 129, Gogama, Ont.
P0M 1W0 — Phone (705) 894-2000
C. Dionne — District Manager
R. Fink — Administration
M. Sitts — Field Services
(vacant) — Fish & Wildlife
C. Mason — Forests
D. Stewart — Lands & Parks

HEARST DISTRICT

631 Front St., Hearst, Ont.
P0L 1N0 — Phone (705) 362-4346
C. E. Emblin — District Manager
W. C. Trowsse — Administration
L. G. Woods — Field Services
S. St. Jules — Fish & Wildlife
D. Stillar — Forests (362-4264)
M. J. Girouard — Lands & Parks

Box 3000, 140 Fourth Ave., Cochrane, Ont.
P0L 1C0 — Phone (705) 272-4287
D. W. Schafer — Deputy Reg. Director
60 Wilson Avenue, Timmins, Ont.
P4N 2S7 — Phone (705) 267-1401
W. E. Belisle — Fire Management
W. O. Mackasey — Mineral Res. Co-ord.
F. J. Wilson — Lands Co-ord.
T. Isherwood — Forester
M. S. Paradis — Engineer
Phone (705) 642-3255
Phone (705) 544-2834

KAPUSKASING DISTRICT

6 Government Road, Kapuskasing, Ont.
P5N 2W4 — Phone (705) 335-6191
R. G. Lightheart — District Manager
L. Keller — Administration
R. Carriere — Field Services
C. Jessop — Fish & Wildlife
K. Buck — Forests
D. Miller — Lands & Parks

KIRKLAND LAKE DISTRICT

Box 129, Swastika, Ont.
P0K 1T0 — Phone (705) 642-3222
J. E. Hamilton — District Manager
G. E. Allick — Administration
R. Landry — Field Services
L. Chamberlin — Fish & Wildlife
B. I. Thompson — Forests
J. A. Colquhoun — Lands
W. B. Hill — Parks

TIMMINS DISTRICT

896 Riverside Drive, Timmins, Ont.
P4N 3W2 — Phone (705) 267-7951
A. F. Papineau — District Manager
V. A. Mathieu — Administration
D. E. Shewen — Field Services
T. Corbett — Fish & Wildlife
D. F. Jefferson — Forests
C. R. Biggar — Lands & Parks

MOOSONEE DISTRICT

Box 190, Moosonee, Ont.
P0L 1Y0 — Phone (705) 336-2987
S. J. Toole — District Manager
L. Bent — Administration
G. F. McAuley — Field Services
K. G. Abrahams — Biologist
W. R. Lannin — Outdoor Rec.
W. A. Hutchison — Lands

NORTHEASTERN REGION

M. A. Klugman	Regional Director
D. J. Vance	Deputy Reg. Director
F. Valiquette	Admin. Co-ord.
C. H. Bennett	Personnel
A. W. McClellan	C.A. Prog. Spvr.
(vacant)	Mining Lands Admin.

Sault Ste. Marie (705)

M. V. St. Jules	Mining Rec. 254-6884
G. M. Bennett	Geologist 942-1414

199 Larch Street, Sudbury, Ont.
P3E 59P ..... Phone (705) 675-4120

V. C. Miller	Mining Recorder
P. E. Giblin	Mineral Res. Co-ord.
D. Fudge	Mining Lands Co-ord.
J. L. Canfield	Fire Mgmt. Co-ord.
J. R. Chevalier	Biologist
H. Walsh	Engineer
W. C. Stevens	Forester
E. A. Wright	Lands Co-ord.
C. Clark	Parks-Rec. Co-ord.

Tarentorus Trout Rearing Station, D. V. Storms (S.S. Marie) ..... Phone (705) 253-8953
North Bay Trout Rearing Station, B.A. Marchant (North Bay) ..... Phone (705) 663-2311
Sandfield Fish Hatchery, G. Clarke (Espanola) ..... Phone (705) 859-3340

SAULT STE. MARIE DISTRICT

Box 130, 69 Church St., S.S. Marie, Ont.
P6A 5L5 ..... Phone (705) 949-1231

J. H. Sellers	District Manager
H. J. Smith	Administration
L. G. Bell	Fire Control
E. A. Pozzo	Fish & Wildlife
B. Smith	Forests
I. J. Valentine	Lands & Parks

SUDBURY DISTRICT

Box 3500, Stn. A, Sudbury, Ont.
P3A 4S2 ..... Phone (705) 522-7823

J. A. Simpson	District Manager
M. H. Jackson	Administration
F. C. Shaver	Field Services
G. J. Haarmeyer	Fish & Wildlife
D. R. Potvin	Forests
M. K. Smith	Lands
D. H. Brunette	Parks

NORTH BAY DISTRICT

Box 3070, North Bay, Ont.
P1B 8K7 ..... Phone (705) 474-5550

E. Rogers	District Manager
G. E. Lacelle	Administration
K. T. Fuller	Field Services
M. R. Wolfe	Fish & Wildlife
D. E. Honeyborne	Forests
R. V. Coulombe	Lands
H. J. Edmundson	Parks

BLIND RIVER DISTRICT

Box 190, 62 Queen St., Blind River, Ont.
P0R 1B0 ..... Phone (705) 356-2234

R. A. Lessard	District Manager
F. McWhinnie	Administration
W. J. Davis	Field Services
S. B. Woodside	Fish & Wildlife
C. F. Husk	Forests
R. H. Wood	Lands
G. W. Connell	Parks

WAWA DISTRICT

Box 1160, Wawa, Ont.
P0S 1K0 ..... Phone (705) 856-2396

E. E. Murphy	District Manager
Mrs. J. M. Kern	Administration
A. J. Bull	Field Services
E. R. Thomas	Fish & Wildlife
C. K. Sumi	Forests
E. V. Uhler	Lands
J. T. Stott	Parks

ESPANOLA DISTRICT

Box 1340, 148 Fleming St., Espanola, Ont.
P0P 1C0 ..... Phone (705) 869-1330

E. N. Arbuckle	District Manager
Mrs. S. Catling	Administration
D. R. Hughson	Outdoor Rec.
H. A. Liljalehto	Forests
D. C. Carnochan	Lands

TEMAGAMI DISTRICT

Box 38, Temagami, Ont.
P0H 2H0 ..... Phone (705) 569-3622

R. G. McGee	District Manager
(vacant)	Administration
H. G. Smith	Field Services
(vacant)	Forests
R. B. Sinclair	Lands & Parks
S. T. Flemming	Fish & Wildlife

ALGONQUIN REGION

R. M. Christie	Regional Director
A. E. Walroth	Deputy Reg. Director
J. H. Lever	Deputy Reg. Director
J. Carswell	Admin. Co-ord.
C. W. Douglas	Biologist
A. P. Stephen	Engineer
B. Petman	Fire Mgt. Officer

Box 9000, Brendale Square, Huntsville, Ont.
P0A 1K0 Phone (705) 789-9611

J. F. Christian	Forester
W. J. Logan	Geologist
J. A. van der Meer	Lands Co-ord.
G. M. Moroz	Parks & Rec. Co-ord.

Pembroke Trout Rearing Station, A. G. Moore ..... Phone (613) 687-5935
Skeleton Lake Fish Hatchery, M. Bohm ..... Phone (705) 769-3731
Haliburton-Hastings Fisheries Assessment Unit ..... Phone (613) 332-3940

PARRY SOUND DISTRICT

4 Miller Street, Parry Sound, Ont.
P2A 1S8 Phone (705) 746-4201

W. J. Lovering	District Manager
G. F. Walter	Administration
C. R. Mumford	Field Services
J. G. Gardner	Fish & Wildlife
G. C. Felton	Forests
J. A. Shalla	Parks
L. A. Connelly	Lands

BANCROFT DISTRICT

Box 500, Bancroft, Ont.
K0L 1C0 Phone (613) 332-3940

M. P. Barker	District Manager
F. Buchan	Administration
M. F. Rush	Field Services
V. B. Collins	Fish & Wildlife
F. J. Walker	Forests
D. W. McLennan	Parks
O. J. Fleming	Lands
H. Meyn	Geologist

ALGONQUIN PARK DISTRICT

Box 219, Whitney, Ont.
K0J 2M0 Phone (705) 637-2780

G. R. Whitney	Park Supt., Dist. Man.
E. A. Dayment	Administration
R. W. Stewart	Fish & Wildlife
D. F. George	Forests
J. E. Elliott	Lands
L. L. Powell	Park Operations
B. A. Norris	Field Services

PEMBROKE DISTRICT

Box 220, Riverside Drive, Pembroke, Ont.
K8A 6X4 Phone (613) 732-3661

L. J. Haas	District Manager
A. H. Plummer	Administration
C. R. Buske	Field Services
A. E. Armstrong	Fish & Wildlife
W. W. Wahl	Forests
E. N. McKenzie	Lands & Mines
G. D. Yarranton	Parks

BRACEBRIDGE DISTRICT

Box 1138, Bracebridge, Ont.
P0B 1C0 Phone (705) 645-8747

H. P. Endress	District Manager
J. S. Purves	Administration
J. T. Matthews	Field Services
D. M. Brooks	Fish & Wildlife
G. K. Schultz	Forests
J.A. Bryant	Lands
R. G. Ellis	Parks

MINDEN DISTRICT

Minden, Ont.
K0M 2K0 Phone (705) 286-1521

D. D. White	District Manager
R. E. Raby	Administration
T. C. Russell	Field Services
D. G. Atkinson	Fish & Wildlife
B. G. Cross	Forests
J. E. Dewey	Lands & Parks

THE LESLIE M. FROST NATURAL RESOURCES CENTRE

Dorset, Ont. P0A 1E0 Phone (705) 766-2451

G. A. Hamilton	Director
S. A. Williams	A/Plan & Mgmt. Supt.
H. Curnow	Operations Supt.
(vacant)	Field Services
W. A. Chambers	Finance & Admin.
T. G. Wright	Food Services
H. J. Barnhart	Maint. Foreman

Specialists:

D. C. Preston (acting)	Forestry
M. E. Buss	Fish & Wildlife
C. K. Macdonald	Recreation
J. A. Stocking	Lands
B. A. Martin	A/Visitor Services

EASTERN REGION

J. R. Oatway	Regional Director
D. E. Gage	Deputy Reg. Director, Resources
J. S. Anderson	Deputy Reg. Director, Services
W. B. Bowles	Admin. Co-ord.
D. G. Watton	Biologist
J. D. Murray	Cons. Auth. Prg. Spvr.
J. R. Stork	Engineer
P. E. Anslow	Forester

Provincial Government Building,
Concession Road, Kemptville, Ont.
K0G 1J0 Phone (613) 258-3413

W. G. Maslen	Lands Co-ord.
W. P. Barber	Parks & Rec. Co-ord.
T. W. Fletcher (acting)	Mines Co-ord.
J. W. Lloyd	Field Services Co-ord.

Codrington Fish Hatchery, A. H. Draves	Phone (613) 475-2512
White Lake Fish Hatchery, K. Steele	Phone (613) 335-2115
Westport Fish Hatchery, G. E. Raine	Phone (613) 273-2106
G. Howard Ferguson Forest Station, A. J. Campbell	Phone (613) 258-3413

TWEED DISTRICT

Metcalfe Street, Tweed, Ont.
K0K 3J0 Phone (613) 478-2330

R. N. Kervin	District Manager
G. J. O'Hearn	Administration
M. J. Williams (acting)	Lands
J. C. Williamson	Outdoor Rec.
W. M. Fasken	Forests
W. J. Miller	Field Services
Dr. P. W. Kingston	Res. Geologist

CARLETON PLACE DISTRICT

10 Findlay Ave., Carleton Place, Ont.
K7C 3Z6 Phone (613) 257-5735

J. R. Bailey	District Manager
G. Sanderson	Administration
J. D. McCready	Forests
D. G. Kennedy	Field Services
K. J. Schonauer	Parks
R. N. Jones	Fish & Wildlife
R. M. Rogers	Lands
M. A. MacDonald	Mineral Resources

CORNWALL DISTRICT

Box 1749, 113 Amelia St. Cornwall, Ont.
K6H 5V7 Phone (613) 933-1774

J. R. Morin	District Manager
W. J. Humphrys	Administration
P. A. McDonald	Fish & Wildlife
B. W. Warwick	Forests
K. E. Green	Field Services, Parks
B. W. McCue	Lands

NAPANEE DISTRICT

1 Richmond Blvd., Napanee, Ont.
K7R 3S3 Phone (613) 354-2173

R. W. Beecher	District Manager
R. A. Armstrong	Administration
A. Denys	Forests, Field Serv.
D. N. Montgomery (acting)	Fish & Wildlife
R. Griffiths	Lands
J. C. Matheson	Parks
S. Thatcher	Mineral Resources

BROCKVILLE DISTRICT

101 Water St. West, Brockville, Ont.
K6V 5Y8 Phone (613) 342-8524

W. V. Hardy	District Manager
D. G. Gilmer	Administration
G. L. Penney	Fish & Wildlife
C. Coons	Forests
G. Tabobondune	Field Services & Lands & Parks

CENTRAL REGION

M. Fordyce	Regional Director	295
A. D. Latornell	Dep. Reg. Director	297
F. G. Shaw	Dep. Reg. Director	290
H. Tjoelker	Admin. Co-ord.	208
J. B. Dawson	Biologist	282
J. J. McFadden	Cons. Auth. Co-ord.	206
R. N. Staley	Forester	289

10670 Yonge Street, Richmond Hill, Ont.
L4C 3C9 Phone (416) 884-9203

M. Narain	Geologist	
L. G. D. Thompson	Mines Co-ord.	232
T. Kurtz	Service Engineer	216
J. T. Griffin	Parks-Rec. Co-ord.	299
M. Groneng (acting)	Lands Co-ord.	234

Midhurst Forest Station, Midhurst,C. R. Groves ..... Phone (705) 728-6599
Orono Forest Station, Orono, B. Phillion ..... Phone (416) 983-9147
Ontario Tree Seed Plant, Angus, B. D. Swaile ..... Phone (705) 424-5311
Deer Lake Fish Hatchery, R.R. 1, Havelock, G. T. Cation ..... Phone (705) 778-3391
Ringwood Fish Hatchery, C. N. Core ..... Phone (416) 640-6204

MAPLE DISTRICT

Maple, Ont.
L0J 1E0 Phone (416) 832-2761

I. B. Earl	District Manager	203
W. B. Pottelberg	Administration	300
D. M. Hogg	Fish & Wildlife	211
C. D. Simpson	Lands	208
M. Charbonneau	Parks	240
Si Dae Kim	Forests, Field Serv.	224
B. Anderson	Mineral Resources	210

LINDSAY DISTRICT

322 Kent St West, Lindsay, Ont.
K9V 4T7 Phone (705) 324-6121

C. R. Gray	District Manager
A. V. Kaufman	Administration
P. A. Smith	Fish & Wildlife
G. Higham	Forests, Field Serv.
L. C. Selby	Lands & Minerals
G. Scott	Parks

HURONIA DISTRICT

Midhurst, Ont.
L0L 1X0 Phone (705) 728-2900

W. D. Mansell	District Manager
D. H. Poff	Administration
A. W. Smith	Fish & Wildlife
R. O. Brandes	Forests
D. R. MacArthur	Services
J. R. Winters	Parks
W. D. Mansell	Wasaga Project

CAMBRIDGE DISTRICT

Box 2186, Cambridge, Ont.
N3C 2W1 Phone (519) 658-9355

W. R. Catton	District Manager
B. J. DeGunst	Administration
T. Taylor	Fish & Wildlife
S. Yorgan	Forest Mgmt.
B. L. Houck	Parks
D. A. Routly	Lands & Minerals

NIAGARA DISTRICT

Box 1070, Highway No. 20, Fonthill, Ont.
L0S 1E0 Phone (416) 892-2656

J. E. Dickenson	District Manager
A. J. Vos	Administration
E. A. Kraker	Forests, Field Serv.
P. J. Drysdale	Outdoor Recreation
J. Z. Fraser	Lands & Minerals

SOUTHWESTERN REGION

N. D. Patrick	Regional Director
J. D. Parker	Deputy Reg. Director
V. G. Milne	Deputy Reg. Director
D. W. Munch	Admin. Co-ord.
H. A. Orr	Biologist
R. J. McClure	Cons. Auth. Prg.-Spvr.
P. H. Crook	Engineer
E. F. Johnston	Forester

1106 Dearness Drive, London, Ont.
N6E 1N9 ..... Phone (519) 681-5350

P. A. Palonen	Mineral Resources
J. A. Fingland	Lands Co-ord.
G. E. Martelle	Parks & Rec. Co-ord.

Chatsworth Fish Hatchery, G. M. Durant ..... Phone (519) 794-2340
Normandale Fish Hatchery, W. A. Hooper ..... Phone (519) 426-3142
St. Williams Forest Station, A. A. Wynia ..... Phone (519) 586-3576
Petroleum Resources Lab, London, (vacant) ..... Phone (519) 433-8431

CHATHAM DISTRICT

Box 1168, 435 Grand Ave West, Chatham, Ont.
N7M 5L8 ..... Phone (519) 354-7340

W. L. McNab	District Manager
(vacant)	Admin., Eng. Services
H. Manson	Fish & Wildlife
K. Yaraskavitch	Forests
A. D. Carr	Parks
H. W. Rowe	Lands, Min. Resources
(vacant)	Petroleum Resources

OWEN SOUND DISTRICT

611 Ninth Ave East, Owen Sound, Ont.
N4K 3E4 ..... Phone (519) 376-3860

R. W. Tippett	District Manager
M. Gobeil	Administration
S. A. Munroe	Fish & Wildlife
W. J. Lambie	Forests
R. J. Manley	Lands, Min. Resources
P. H. Baxter	Parks
E. G. Walker	Fire, Eng. Services

AYLMER DISTRICT

353 Talbot Street West, Aylmer, Ont.
N5H 2S8 ..... Phone (519) 773-9241

M. G. Lewis	District Manager
D. L. Clarke	Administration
G. R. Austin	Fish & Wildlife
W. C. Gilmore	Forest Resources
D. G. Ward	Parks, Lands Services
W. E. Lau	Mineral Resources

SIMCOE DISTRICT

645 Norfolk Street North, Simcoe, Ont.
N3Y 3R2 ..... Phone (519) 426-7650

M. F. McKenzie	District Manager
A. McGarrity	Administration
J. M. Collins	Parks, Fish & Wildlife
D. A. Scott	Forests
W. L. Edwards	Lands, Eng. Services Mineral Resources

WINGHAM DISTRICT

R. R. 5, Wingham, Ont.
N0G 2W0 ..... Phone (519) 357-3131

J. L. Hamill	District Manager
(vacant)	Administration
W. A. Creighton	Parks, Fish, Wildlife
H. R. Lancaster	Forests
S. A. Buszynski	Lands, Field Services
T. R. Carter	Mineral Resources